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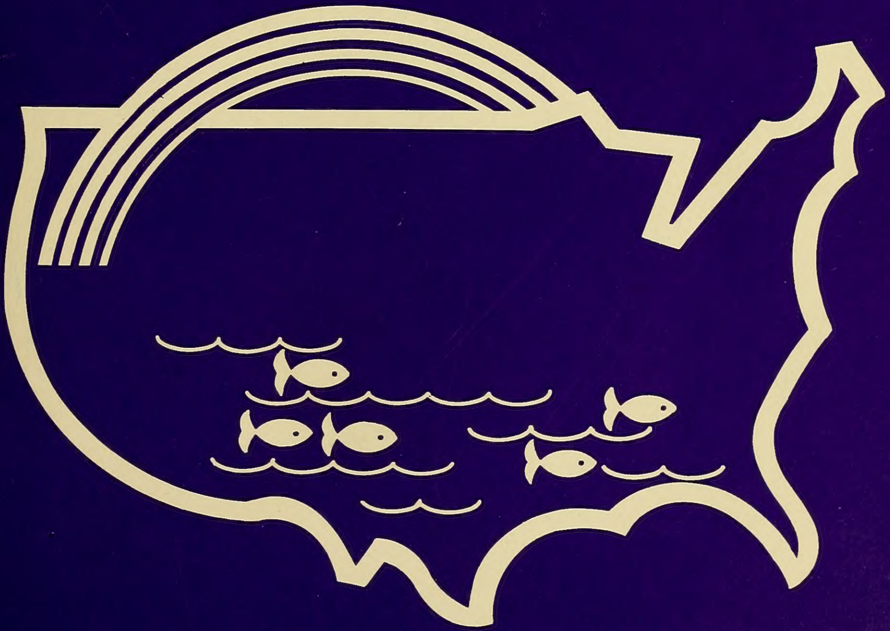
Current Fishery Statistics No. 8700

Fisheries of the United States, 1987

May 1988



U.S. DEPARTMENT
OF COMMERCE

National Oceanic and
Atmospheric Administration

National Marine
Fisheries Service

Current Fishery Statistics No. 8700

Fisheries of the United States, 1987

Edited by
Barbara K. O'Bannon

Washington, D.C.
May 1988

U.S. DEPARTMENT OF COMMERCE
C. William Verity, Secretary
National Oceanic and Atmospheric Administration
William E. Evans, Under Secretary
National Marine Fisheries Service
Fisheries Statistics Division

For sale by the Superintendent of Documents, U.S. Government Printing Office
Washington, D.C. 20402

PREFACE

FISHERIES OF THE UNITED STATES, 1987

This publication is a preliminary report for 1987 on commercial and recreational fisheries of the United States and foreign catches in the U.S. Exclusive Economic Zone (EEZ). This annual report provides timely answers to frequently asked questions for the previous year.

SOURCES OF DATA

Information in this report came from many sources. Field offices of the National Marine Fisheries Service (NMFS), in cooperation with various States, collected and compiled data on U.S. commercial landings and processed fishery products. The NMFS field offices also compiled data on the foreign catch from reports submitted by designated foreign officials. The NMFS National Fishery Statistics Program in Washington, D.C., managed the collection and compilation of recreational statistics, and tabulated and prepared the data for publication. Sources of other data appearing in this publication are: U.S. Bureau of the Census, U.S. Bureau of Labor Statistics, U.S. Coast Guard, U.S. Customs Service, U.S. Department of the Interior, U.S. Department of Agriculture, Food and Agriculture Organization (FAO) of the United Nations (Rome), and the countries fishing in the U.S. EEZ.

PRELIMINARY AND FINAL DATA

Data on U.S. commercial and recreational landings, foreign catches, employment, prices, and production of processed products are preliminary for 1987. Final data will be published in Fishery Statistics of the United States and other NMFS Current Fishery Statistics publications.

DEFINITIONS - (See Glossary)

As in past issues of this publication, the units of quantity and value are defined as follows: U.S. landings and foreign catch are shown in round weight (mollusk shells excluded), unless otherwise noted; quantities shown for U.S. imports and exports are in product weight, as reported by the U.S. Bureau of the Census, unless otherwise noted; the value of the U.S. domestic commercial catch is exvessel;the value for U.S. imports is generally the market value in the foreign (exporting) country and, therefore, excludes U.S. import duties, freight charges from the foreign country to the United States, and insurance; the value for exports is generally the value at the U.S. port of export, based on the selling price, including inland freight, insurance, and other charges. Countries and territories shown in the U.S. foreign trade section are established for statistical purposes in the Tariff Schedules of the United States Annotated (Tariff Commission) and reported by the U.S. Bureau of the Census.

SUGGESTIONS

The Fisheries Statistics Division wishes to provide the kinds of data sought by users of fishery statistics, and welcomes any comments or suggestions that will improve this publication.

Address all comments or questions to:

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ACKNOWLEDGEMENT

The Fisheries Statistics Division of NMFS takes this opportunity to thank members of States, industry, and foreign nations who provided the data that made this publication possible.

Program leaders of the field offices were: Ronnee Schultz and Robert A. Hall, New England, Middle Atlantic, Chesapeake, Great Lakes, and northern Mississippi River States; Richard Raulerson and Ernest Snell, South Atlantic, Gulf, and southern Mississippi River States; Patricia J. Donley, California; John K. Bishop, Oregon and Washington; Doyle E. Gates, Hawaii; and Janet Smoker, Alaska.

Members of the Washington, D.C., Fisheries Statistics Division who helped with this publication were: Michele Bradley-Holt, Mary Cotton, Margret Dancy, Ronald Essig, Mark Fisher, Donald FitzGibbon, Deborah Hogans, Mark Holliday, Willie Mae Holloway, Steve Koplin, Barbara O'Bannon, Robert Rosette, Richard Schween, William Uttley, Michael Williams, Leila Wise, and John Witzig.

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REVIEW

IMPORTANT FACTS

U.S. LANDINGS. Commercial landings (edible and industrial) by U.S. fishermen at ports in the 50 States were 6.9 billion pounds (3.1 million metric tons) valued at $3.1 billion in 1987—an increase of 865.1 million pounds (392,000 metric tons) in quantity, and an increase of $352,000 in value compared with 1986. Landings of major finfish species such as Pacific cod, flounders, menhaden, Alaska pollock and tuna increased. The 1987 average exvessel price per pound paid to fishermen of 45 cents was similar to the 46 cents they received in 1986. Finfish accounted for 83 percent of total landings but only 52 percent of the total value of finfish and shellfish.

Commercial landings by U.S. fishermen at ports outside the 50 States or transferred in the U.S. Exclusive Economic Zone (EEZ) onto foreign vessels (joint ventures) were an additional 4.1 billion pounds (1.9 million metric tons) valued at $454.0 million. This was a 22 percent or 729.3 million pound (331,000 metric tons) increase in quantity and a $126.8 million (39 percent) increase in value compared with 1986. Most of these landings consisted of tuna landed at canneries in Puerto Rico and Amercian Samoa and joint venture catches of Alaska pollock.

Edible fish and shellfish landings in the 50 States were 3.9 billion pounds (1.8 million metric tons) in 1987—an increase of 553.0 million pounds (251,000 metric tons) compared with 1986. Landings of shrimp and salmon decreased, but there were increases in Alaska pollock, crabs, Pacific cod, flounders, and tuna.

Landings for reduction and other industrial purposes were 3.0 billion pounds (1.3 million metric tons) in 1987—an increase of 12 percent compared with 1986.

JOINT VENTURE CATCH IN THE U.S. EEZ. Joint venture catches by U.S. fishermen unloaded onto foreign vessels were 3.5 billion pounds (1.6 million metric tons) valued at $213.8 million. This was a 22 percent increase in quantity over 1986, when 2.9 billion pounds (1.3 million metric tons) were caught, valued at $154.9 million. The major species were flounders, Pacific hake, and Alaska pollock.

FOREIGN CATCH IN U.S. EEZ. The foreign catch of fish (excluding tunas) and shellfish in the U.S. EEZ was 149,000 metric tons (328.4 million pounds) in 1987, a 75 percent decrease compared to 1986 and 87 percent below the average for the preceding 5 years. As in other years, the U.S. EEZ off Alaska supplied the largest share of the foreign catch (46 percent) followed by California, Oregon and Washington (34 percent), and the North Atlantic (20 percent).

Pacific cod comprised 36 percent of the foreign catch; Pacific hake, 33 percent; Atlantic mackerel 20 percent; and other fish and shellfish the remainder.

Japan continued as the leading nation fishing in the U.S. EEZ with a catch of 67.4 thousand metric tons, 45 percent of the total foreign catch. Catches by vessels of Poland, the second leading nation fishing in the U.S. EEZ, were 49.0 thousand metric tons representing 33 percent of the catch in 1987.

The foreign catch in the Pacific U.S. EEZ in 1987 was 119,000 metric tons, 443,000 metric tons less than 1986. Fifty-eight percent of this catch was made in the Eastern Bering Sea and 42 percent was taken off California, Oregon, and Washington. Pacific cod, 54,000 metric tons (46 percent of the total), was the leading species followed by Pacific hake, 50,000 metric tons (42 percent). Japan and Poland were the major countries fishing this area in 1987 taking 97 percent of the total catch.

Foreign catches in the North Atlantic U.S. EEZ in 1987 were 30,000 metric tons, 4,000 metric tons (14 percent) more than the 1986 catch when 26,000 metric tons were taken. The German Democratic Republic had the highest catch of 19,000 metric tons (63 percent) followed by the Netherlands with 11,000 metric tons (37 percent). Atlantic mackerel catches amounted to 29,000 metric tons (99 percent).

U.S. VS. FOREIGN CATCH IN U.S. EEZ. The combined catch by U.S. and foreign vessels in the U.S. EEZ was 3.0 million metric tons in 1987, similar to 1986. However, the U.S. share was 95 percent of the total, up 15 percentage points from 1986.

WORLD LANDINGS. In 1986, the most recent year for which data are available, world commercial fishery landings were a record 92.2 million metric tons—an increase of 5.7 million metric tons (7 percent) compared with 1985. Japan continued to be the leading nation with 13 percent of the total catch; the USSR, second with 12 percent; China, third with 9 percent; followed by Peru and Chile each with 6 percent. The United States was the sixth leading nation with 5 percent of the total catch.

PRICES. The procedure for calculating the Index of Exvessel Prices for all fish and shellfish was reviewed and modified in 1986. Major changes in the U.S. fishing industry have occurred since the index was originally designed. The result was that the "market basket" or group of species used to calculate the index was no longer representative of price trends for all fish and shellfish. The index has been recalculated with a new market basket and 1986 as the base year. The result is a recalculated annual index for 1981 - 1986. The annual index for edible fish and shellfish increased 31 percent from 1986. The annual index for industrial fish decreased 2 percent from 1986.

PROCESSED PRODUCTS. The 1987 estimated value of the domestic production of edible and nonedible fishery products was $5.5 billion, $236.6 million (4 percent) more than the $5.3 billion in 1986. The value of edible products was $5.2 billion—an increase of $226.9 million (5 percent) compared with 1986. The value of industrial products was $286.6 million in 1987—an increase of $9.6 million (3 percent) compared with 1986.

FOREIGN TRADE. The total import value of edible and nonedible fishery products was a record $8.8 billion in 1987--an increase of $1.2 billion (16 percent) compared with 1986. Imports of edible fishery products (product weight) were a record 3.2 billion pounds (1.5 million metric tons) valued at a record $5.7 billion in 1987—an increase of 222.2

IMPORTANT FACTS

million pounds (7 percent) in quantity and $897.7 million (19 percent) in value compared with 1986. Imports of nonedible (industrial) products also set a value record in 1987, with products valued at $3.1 billion—an increase of $293.7 million compared with 1986.

Total export value of edible and nonedible fishery products of domestic origin was a record $1.7 billion in 1987—an increase of $304.3 million (22 percent) compared with 1986. United States firms exported 782.9 million pounds (355,000 metric tons) of edible products valued at $1.6 billion—an increase of 47.9 million pounds (22,000 metric tons) in quantity and $287.8 million in value compared with 1986. Exports of nonedible products were valued at $82.8 million, $16.5 million more than 1986 nonedible exports. The $213.8 million received for U.S.-flag vessel catches transferred onto foreign vessels in the U.S. EEZ in joint venture operations are not included in the export statistics.

SUPPLY. The U.S. supply of edible fishery products (domestic landings plus imports, round weight equivalent) was a record 10.6 billion pounds (4.8 million metric tons) in 1987—an increase of 941.0 million pounds (10 percent) compared with the previous record supply in 1986. The change reflects an increase of 6 percent in imports, and an increase of 16 percent in domestic commercial landings. The supply of industrial fishery products was 5.2 billion pounds (2.4 million metric tons) in 1987—an increase of 435.0 million pounds (9 percent) compared with 1986. Domestic commercial landings for industrial products of 2.9 billion pounds (1.3 million metric tons) was 251.0 million pounds less than the record of 3.2 billion pounds set in 1983.

PER CAPITA CONSUMPTION. U.S. consumption of fishery products was a record 15.4 pounds of edible meat per person in 1987, up 0.7 pound from 1986.

CONSUMER EXPENDITURES. U.S. consumers spent an estimated $28.8 billion for fishery products in 1987. The total includes $19.7 billion in expenditures in food service establishments (restaurants, carry-outs, caterers, etc.); $8.9 billion in retail stores (for home consumption); and $214.0 million for industrial fish products. In producing and marketing a variety of fishery products for domestic and foreign markets, the commercial marine fishing industry contributed $17.0 billion (in valued added) to the U.S. gross national products (GNP).

The estimates of consumer expenditures and industry contribution to GNP are derived from a model developed for NMFS specifically for this purpose. The model replaces an earlier version which was the basis for estimates last published in "Fisheries of the U.S., 1982." The latter estimates were for 1981 and showed $13.5 billion in consumer expenditures on fishery products, and a $7.6 billion industry contribution to GNP.

OTHER IMPORTANT FACTS

Menhaden, with landings of 2.7 billion pounds (1.2 million metric tons), was the most important species in quantity in 1987, accounting for 39 percent of the commercial fishery landings in the United States. Menhaden was eighth in value.

Pollock was the second most important in quantity, but low in value.

Salmon was the third most important in quantity and first in value.

Crabs were fourth in quantity, and third in value.

Shrimp were the fifth most important in quantity and second in value.

Lobster and flounders were the fourth and fifth most important species in value, respectively.

Tuna landings by U.S.-flag vessels at ports outside the continental United States amounted to 526.2 million pounds. Other species landed at ports outside the United States were Atlantic squid and mackerel and Pacific groundfish, transferred onto foreign vessels in the U.S. EEZ.

Cameron, Louisiana, was the leading U.S. port in quantity of commercial fishery landings, followed by Pascagoula-Moss Point, Mississippi; Empire-Venice, Dulvac-Chauvin and Intercoastal City, Louisiana. Menhaden was the principal species landed at these ports.

New Bedford, Massachusetts, was the leading U.S. port in terms of value, followed by Kodiak, Alaska; Dulac-Chauvin, Louisiana; Dutch Harbor-Unalaska, Alaska; and Empire-Venice, Louisiana.

Louisiana led all States in volume with landings of 1.8 billion pounds, followed by Alaska, 1.7 billion; Virginia, 709.6 million; California, 451.7 million; and Mississippi 436.7 million pounds.

Alaska led all States in value with $941.7 million, followed by Louisiana, $315.9; Massachusetts, $278.9; Texas, $199.7; and California $173.2 million.

REVIEW

IMPORTANT SPECIES

ALASKA POLLOCK AND OTHER PACIFIC TRAWL FISH. U.S. landings of Pacific trawl fish (Pacific cod, flounders, hake (Pacific whiting), Pacific ocean perch, Alaska pollock, and rockfishes) were 1.0 billion pounds valued at $151.0 million—an increase of 133 percent in quantity compared with 1986.

Landings of Alaska pollock increased 323 percent to 552.0 million pounds, more than 10 times higher than the 5-year average. Landings of Pacific cod were 170.6 million pounds - an increase of 63 percent from 104.4 million pounds in 1986. Pacific hake (whiting) landings were 38.8 million pounds valued at $1.9 million, an increase of 13.2 million pounds (51 percent) and $718,000 (61 percent) compared with 1986. The 1987 landings of Pacific hake were 116 percent higher than the 5-year average. These significant increases in harvests by U.S. vessels continue to replace directed foreign fishing off Alaska.

In the California-Oregon-Washington trawl fishery, landings of rockfishes were 117.9 million pounds (28 percent higher than 1986) valued at $38.2 million. The 1987 landings were 21 percent higher than the 5-year average.

ANCHOVIES. U.S. landings of anchovies were 12.9 million pounds—a decrease of 579,000 pounds (4 percent) compared with 1986. Of this amount, 12.3 million pounds (96 percent) were used as bait. Of the remaining landings, 328,000 pounds went into reduction plants for fish meal and oil.

HALIBUT. U.S. landings of Atlantic and Pacific halibut were 76.1 million pounds (round weight) valued at $88.3 million—a decrease of 1.6 million pounds (2 percent), but an increase of $5.3 million (6 percent) in value compared with 1986. The Pacific fishery accounted for all but 68,000 pounds of the 1987 total catch. The average exvessel price per pound in 1987 was $1.16 compared with $1.07 in 1986.

HERRING, SEA. U.S. commercial landings of sea herring were 207.1 million pounds valued at $52.3 million—a decrease of 3.0 million pounds (1 percent) in quantity, but an increase of $3.4 million (7 percent) in value compared with 1986. Landings of Atlantic sea herring increased to 84.5 million pounds valued at $4.4 million—an increase of 5.2 million pounds (6 percent) in quantity and $54,000 (1 percent) in value compared with 1986.

Landings of Pacific sea herring were 122.6 million pounds valued at $47.9 million—a decrease of 8.2 million pounds (6 percent) in quantity, but an increase of $3.3 million (7 percent) in value compared with 1986. Alaskan landings of 102.4 million pounds decreased by 10.2 million pounds (9 percent) compared with 1986, but the 1987 value was about $3.3 million greater than 1986.

JACK MACKEREL. Landings of jack mackerel in 1987 were 26.7 million pounds valued at $1.8 million—an increase of 3.0 million pounds (13 percent) in quantity but only $56,000 in value compared with 1986. Landings continued to be below the 5-year average. The 1987 average exvessel price per pound was 7 cents.

MACKEREL, ATLANTIC. U.S. landings of Atlantic mackerel were 9.9 million pounds valued at $1.1 million—an increase of 580,000 pounds (6 percent) in quantity, but a decrease of $145,000 in value (12 percent) when compared with 1986. New Jersey was the leading State for the seventh consecutive year with 6.3 million pounds (63 percent of the total catch). The average exvessel price per pound in 1987 was 11 cents, down 2 cents from 1986.

MACKEREL, PACIFIC. Landings of Pacific mackerel were 93.8 million pounds valued at $6.4 million—an increase of 8.3 million pounds (10 percent) in quantity and $25,000 (less than 1 percent) in value compared with 1986. The average exvessel price remained stable at about 7 cents per pound.

MENHADEN. The U.S. menhaden landings were 2.7 billion pounds valued at $104.4 million—an increase of 320.9 million pounds (13 percent) in quantity and $10.7 million (11 percent) in value compared with 1986. Landings increased by 147.6 million pounds (26 percent) in the Atlantic States and 173.3 million pounds (9 percent) in the Gulf States compared with 1986. Landings along the Atlantic coast were 712.5 million pounds valued at $33.9 million. Gulf region landings were 2.0 billion pounds valued at $70.5 million. Menhaden are used primarily for the production of meal, oil, and solubles. Small quantities are used for bait and canned pet food.

NORTH ATLANTIC TRAWL FISH. North Atlantic landings of butterfish, Atlantic cod, cusk, flounders (blackback, fluke, yellowtail and other), haddock, red and white hake, ocean perch, pollock, and whiting (silver hake) were 273.4 million pounds valued at $213.7 million—a decrease of 36.4 million pounds (12 percent) in quantity, but an increase of $23.0 million (12 percent) in value compared with 1986. Of these species, flounders led in value, accounting for 53 percent of the total; followed by Atlantic cod, 21 percent; and pollock, 8 percent.

Landings of Atlantic cod declined for the fourth consecutive year to 59.1 million pounds in 1987, 35 percent below the 5-year average. The exvessel price per pound was 75 cents per pound in 1987 compared with 59 cents per pound in 1986.

The 1987 landings of yellowtail flounder were 16.7 million pounds, a decrease of 6.2 million pounds from 1986 and 60 percent below the 5-year average.

Haddock landings are near historic lows, declining in 1987 to 6.7 million pounds (down 39 percent from 1986). Value decreased to $8.5 million (down 22 percent from 1986).

The North Atlantic pollock landings were 45.6 million pounds in 1987 valued at $17.9 million, a decrease of 8.8 million pounds (16 percent) but an increase of $3.9 million (28 percent) in value from 1986.

PACIFIC SALMON. U.S. commercial landings of salmon were 562.0 million pounds valued at $596.4 million—a decrease of 96.5 million pounds (15 percent) in quantity, but an increase of $102.4 million (21 percent) in value compared with 1986. Alaska accounted for 87 percent of the total landings; Washington, 9 percent; and Oregon and California the remaining 4 percent. Landings of 21,000 pounds of chinook and silver salmon were taken from the Great Lakes. Red salmon landings were 227.4 million pounds valued at $359.8 million, an increase of 15.2 million pounds (7 percent) in quantity and $54.4 million (18 percent) in value compared with 1986. King salmon landings increased to 39.9 million pounds—up 9.1 million pounds (29 percent) from 1986. Pink salmon landings of 169.3 million pounds in 1987 decreased by 99.3 million pounds (37 percent); chum salmon, 86.3 million pounds, decreased 139,000 pounds (less than 1 percent); and silver salmon, 39.0 million pounds, decreased 21.3 million pounds (35 percent) compared with 1986.

Alaska landings of 489.4 million pounds valued at $473.0 million were a decrease of 100.2 million pounds (17 percent) in quantity and an increase of $68.9 million (17 percent) in value compared with 1986. The distribution of Alaska salmon landings by species in 1987 was pink, 159.6 million pounds (33 percent); red or sockeye, 215.4 million pounds (44 percent); chum or keta, 78.3 million pounds (16 percent), silver or coho, 23.9 million pounds (5 percent), and chinook or king, 12.2 million pounds (2 percent). The exvessel price per pound for all species in Alaska was 97 cents in 1987, up 28 cents from 1986.

Washington salmon landings were 48.9 million pounds valued at $71.3 million—an increase of 787,000 pounds (2 percent) in quantity and $17.9 million (34 percent) in value compared with 1986. The biennial fishery for pink salmon went from 4,000 pounds in 1986 to 9.6 million pounds in 1987. Landings of red salmon were 11.9 million pounds—down 5.4 million pounds (31 percent), followed by silver salmon, 11.8 million pounds (down 1 percent), chum, 8.0 million pounds (down 38 percent), and chinook, 7.6 million pounds (up 26 percent) compared with 1986. The average exvessel price per pound for all species in Washington went from $1.11 in 1986 to $1.46 in 1987.

Oregon salmon landings were 14.4 million pounds valued at $26.5 million—an increase of 1.0 million pounds (8 percent) in quantity and $11.3 million (74 percent) in value compared with 1986. Red salmon landings increased to 124,000 pounds, more than eight times the 1986 landings. Landings of chinook salmon increased to 11.1 million pounds (up 73 percent); chum, 7,000 pounds (down 12 percent); and silver 3.1 million pounds (down 56 percent) compared with 1986. The average exvessel price per pound for all species in Oregon increased from $1.14 in 1986 to $1.84 in 1987.

California salmon landings were 9.3 million pounds valued at $25.6 million — an increase of 1.9 million pounds (25 percent) in quantity and $4.3 million (20 percent) compared with 1986. Chinook salmon landings were 9.0 million pounds valued at $25.1 million — an increase of 1.8 million pounds (25 percent) in quantity and $4.1 million (19 percent) in value compared with 1986. Landings of silver salmon increased to 246,000 pounds (up 26 percent) in quantity and $263,000 (up 115 percent) in value compared with 1986. The average exvessel price per pound paid to fishermen for all species in 1987 was $2.75 compared with $2.86 in 1986.

SABLEFISH. U.S. commercial landings of sablefish were 102.7 million pounds valued at $58.1 million—an increase of 17.8 million pounds (21 percent) in quantity, and $12.2 million (27 percent) in value compared with 1986. Landings increased 27 percent in Alaska to 74.0 million pounds. Landings increased in Washington to 7.6 million pounds (up 27 percent), in Oregon to 11.6 million pounds (up 13 percent), and decreased in California to 9.6 million pounds (down 7 percent) compared with 1986. The average exvessel price per pound in 1987 was 57 cents compared with 54 cents in 1986.

TUNA. Landings of tuna by U.S. fishermen at ports in the 50 States, Puerto Rico, American Samoa, other U.S. territories, and foreign ports were 626.2 million pounds valued at $321.4 million--an increase of 71.2 million pounds (13 percent) in quantity and $104.2 million (48 percent) in value compared with 1986. The average exvessel price per pound of all species of tuna in 1987 was 51 cents compared with 39 cents in 1986.

Bigeye landings were 3.4 million pounds—an increase of 2.1 million pounds (149 percent) compared with 1986. The average exvessel price per pound was $2.76 in 1987 compared with $3.68 in 1986.

Skipjack landings were 230.2 million pounds—a decrease of 7.3 million pounds (3 percent) compared with 1986. The average exvessel price per pound was 39 cents in 1987 compared with 33 cents in 1986.

Yellowfin landings were 377.5 million pounds—an increase of 84.8 million pounds (29 percent) compared with 1986. The average exvessel price per pound was 52 cents in 1987 compared with 41 cents in 1986.

Bluefin landings were 4.3 million pounds—a decrease of 6.4 million pounds (59 percent) compared with 1986. The average exvessel price per pound in 1987 was $3.80 compared with 64 cents in 1986.

Sixteen percent of the tuna landings were at ports in the continental United States, principally California with 69 percent of the continental landings.

CLAMS. Landings of all species yielded 134.4 million pounds of meats valued at $132.9 million—a decrease of 11.0 million pounds (8 percent) in quantity and $2.0 million (2 percent) in value compared with 1986. The average exvessel price per pound increased to 99 cents in 1987 from 93 cents in 1986.

Surf clams yielded 60.7 million pounds of meats valued at $28.0 million—a decrease of 18.0 million pounds (23 percent) in quantity, and $14.6 million (34 percent) in value compared with 1986. New Jersey was the leading State with 35.8 million pounds (down 2 percent from 1986), followed by Virginia, 8.7 million pounds (down 29 percent); Maryland, 7.7 million pounds (down 12 percent); Massachusetts, 4.2 million pounds (down 42 percent); and New York, 2.8 million pounds (down 76 percent). The average exvessel price per pound of meats was 46 cents in 1987, down from 54 cents in 1986.

The ocean quahog fishery produced 50.3 million pounds of meats valued at $16.6 million—an increase of 4.9 million pounds (11 percent) in quantity, and $860,000 (5 percent) in value compared with 1986. New Jersey was the leading producer with 24.4 million pounds of meats accounting for 49 percent of the total ocean quahog landings. The value for New Jersey in 1987 was $6.9 million—a decrease of $337,000 (5 percent) compared with 1986. Maryland landings were 12.4 million pounds valued at $3.7 million—an increase of 398,000 pounds (3 percent) in quantity and $98,000 (3 percent) in value compared with 1986. The average exvessel price per pound of meats was 33 cents in 1987, compared to 35 cents in 1986.

The hard clam fishery produced 11.4 million pounds of meats valued at $49.6 million—a decrease of 375,000 million pounds (3 percent) in quantity, but an increase of $2.8 million (6 percent) in value compared with 1986.

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IMPORTANT SPECIES

Landings in the New England region were 5.4 million pounds of meats (down 6 percent); Middle Atlantic region, 1.5 million (up 23 percent); Chesapeake region, 1.0 million pounds (up 18 percent); and the South Atlantic region, 2.2 million pounds (down 25 percent). The average exvessel price per pound of meats increased from $3.97 in 1986 to $4.34 in 1987.

Soft clams yielded 7.5 million pounds of meats valued at $19.8 million—an increase of 1.6 million pounds (27 percent) in quantity, and $1.3 million (7 percent) in value compared with 1986. Maryland was the leading State with 3.2 million pounds of meats (up 310 percent from 1986), followed by Maine with 2.7 million pounds (down 29 percent) and Massachusetts with 1.3 million pounds (up 48 percent). The average exvessel price per pound of meats was $2.65 in 1987 compared with $3.13 in 1986.

CRABS. Landings of all species of crabs were 386.4 million pounds valued at $321.9 million—an increase of 30.7 million pounds (9 percent) in quantity and $51.7 million (19 percent) in value compared with 1986. Total landings of all crab species increased in 1987.

Hard blue crab landings were 197.8 million pounds valued at $70.8 million—an increase of 13.3 million pounds (7 percent) in quantity and $12.8 million (22 percent) in value compared with 1986. Hard blue crab landings in the Chesapeake region of 75.8 million pounds decreased 7.2 million pounds (9 percent), and the South Atlantic region landings of 47.2 million pounds increased by 7.0 million pounds (18 percent). The Gulf region, with 67.6 million pounds, increased 12.1 million pounds (22 percent). The Middle Atlantic region landings of 7.3 million pounds valued at $2.8 million increased 1.4 million pounds (23 percent) in quantity and $356,000 (15 percent) in value compared with 1986. The average exvessel price per pound of hard blue crabs was 36 cents in 1987 compared with 31 cents in 1986.

Dungeness crab landings were 29.5 million pounds valued at $38.5 million—an increase of 7.1 million pounds (31 percent) in quantity and $9.4 million (32 percent) in value compared with 1986. Alaska led all States with landings of 9.4 million pounds (32 percent of the total landings)—an increase of 3.6 million pounds (64 percent) compared with 1986. Washington increased in landings with 7.5 million pounds, up 41 percent compared with 1986. Oregon landings were 6.0 million pounds, up 29 percent compared to 1986. California decreased in landings with 6.7 million pounds (down 1 percent from 1986). The average exvessel price per pound was $1.31 in 1987 compared with $1.30 in 1986.

U.S. landings of king crab were 29.1 million pounds valued at $98.9 million—an increase of 3.2 million pounds (12 percent) compared with 1986. The average exvessel price per pound in 1987 was $3.40 compared with $3.38 received in 1986.

Snow (tanner) crab landings were 113.8 million pounds valued at $98.7 million—an increase of 3.8 million pounds (3 percent) in quantity and $15.3 million (18 percent) in value compared with 1986. The average exvessel price per pound was 87 cents in 1987, up from 76 cents in 1986.

LOBSTERS, AMERICAN. American lobster landings were 45.6 million pounds valued at $133.6 million—a decrease in quantity of 495,000 pounds (1 percent), but an increase in value of $13.0 million (11 percent) compared with 1986. Maine led in landings for the sixth consecutive year, with 19.7 million pounds valued at $54.5 million — up 42,000 pounds (less than 1 percent) from 1986. Massachusetts, the second leading producer, had landings of 15.1 million pounds valued at $43.7 million, an increase of 76,000 pounds (less than 1 percent) compared with 1986. These two States combined to produce 76 percent of the total national landings. The average exvessel price per pound was $2.93 in 1987 compared with $2.62 in 1986.

LOBSTERS, SPINY. U.S. landings of spiny lobster were 5.8 million pounds valued at $21.3 million—a decrease of 1.0 million pounds (15 percent) in quantity, but an increase of $2.1 million (11 percent) in value compared with 1986. Florida, with landings of 4.8 million pounds valued at $16.7 million, accounted for 83 percent of the total catch and 78 percent of the value. This was a decrease of 426,000 pounds (8 percent) in quantity but an increase of $3.1 million (23 percent) in value compared with 1986. Overall the average exvessel price per pound was $3.70 in 1987 compared with $2.84 in 1986.

OYSTERS. U.S. oyster landings yielded 39.8 million pounds of meats valued at $92.4 million—a decrease of 737,000 pounds (2 percent) in quantity, but an increase of $14.4 million (18 percent) in value compared with 1986. The Gulf region (principally Louisiana with 65 percent of the region's total) led in production with 18.4 million pounds of meats, 46 percent of the national total; followed by the Pacific region with 9.8 million pounds (25 percent), and the Chesapeake region, with 8.7 million pounds (22 percent). The average exvessel price per pound of meats was $2.32 in 1987 compared with $1.93 in 1986.

SHRIMP. U.S. landings of shrimp were 363.1 million pounds valued at $578.1 million—a decrease of 37.0 million pounds (9 percent) in quantity, and $84.7 million (13 percent) in value compared with 1986. Shrimp landings increased in New England (up 7 percent), and the Pacific coast (up 15 percent), but decreased in the South Atlantic (down 1 percent), and Gulf (down 15 percent), when compared with 1986. The average exvessel price per pound of shrimp decreased to $1.59 in 1987 compared with $1.66 in 1986. Gulf region landings were 257.1 million pounds compared with 304.1 million pounds in 1986. Louisiana led all Gulf States with 116.3 million pounds (down 21 percent), followed by Texas, 92.4 million pounds (down 5 percent); Florida (west coast), 18.5 million pounds (down 24 percent); Alabama, 17.0 million pounds (down 25 percent); and Mississippi, 12.9 million pounds (unchanged). Oregon was the third leading State with landings of 44.5 million pounds (up 32 percent), and Washington landings were 16.2 million pounds, down 7 percent when compared with 1986.

SCALLOPS. U.S. landings of all species of scallops were 40.8 million pounds of meats valued at $144.3 million—an increase of 18.4 million pounds (82 percent) in quantity, and $37.3 million (35 percent) in value compared with 1986. The average exvessel price per pound of meats decreased from $4.79 in 1986 to $3.54 in 1987.

U.S. bay scallop landings were 580,000 pounds of meats valued at $3.2 million—a decrease of 155,000 pounds (21 percent) in quantity, and $3.4 million (52 percent) in value compared with 1986. Massachusetts was the leading State with 425,000 pounds of meats, 73 percent of the

IMPORTANT SPECIES

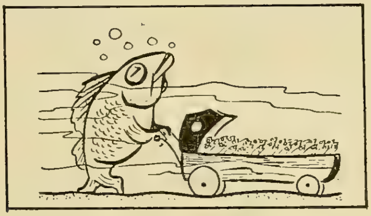
national total. The average exvessel price per pound of meats was $5.45 in 1987 compared with $8.88 in 1986.

Sea scallop landings were 32.0 million pounds of meats valued at $132.3 million—an increase of 12.0 million pounds (60 percent) in quantity and $34.8 million (36 percent) in value compared with 1986. Massachusetts was the leading State in landings of sea scallops with 16.5 million pounds of meats, 51 percent of the national total. The average exvessel price per pound of meats in 1987 was $4.13 compared with $4.87 in 1986.

Landings of calico scallops were 8.2 million pounds of meats valued at $8.9 million—an increase of 6.5 million pounds (405 percent) in quantity and $5.8 million (188 percent) in value compared with 1986. Florida (east coast) had 92 percent of the total landings in 1987. The average exvessel price per pound of meats was $1.09 in 1987 compared with $1.91 in 1986.

SQUID. U.S. commercial landings of squid were 82.0 million pounds valued at $16.8 million—an increase of 6.6 million pounds (9 percent) and $2.1 million (15 percent) compared with 1986. California was the leading State with 43.2 million pounds, 53 percent of the national total.

The New England region landings were 18.0 million pounds (up 245 percent from 1986). Landings in the Middle Atlantic region were 19.7 million pounds (up 68 percent), and the Chesapeake region, 799,000 pounds. The average exvessel price per pound for squid was 20 cents in 1987, compared with 19 cents in 1986.



PER CAPITA CONSUMPTION

PER CAPITA CONSUMPTION. U.S. per capita consumption of fish and shellfish was a record 15.4 pounds (edible meat) in 1987. This total was 0.7 pounds more than the 14.7 pounds consumed per capita in 1986. The change was due to increased consumption of fresh and frozen fishery products.

Per capita consumption of fresh and frozen products registered a total of 10.0 pounds, an increase of 1.0 pound above the 1986 level. Fresh and frozen finfish consumption was 6.0 pounds per capita in 1987, while fresh and frozen shellfish registered 4.0 pounds per capita. Record shrimp consumption (2.3 pounds per capita) accounted for most of the increase in shellfish. The fresh and frozen finfish consumption includes approximately 0.6 pounds per capita from domestic farm-raised catfish, an increase of 0.2 pounds above the 1986 level.

Consumption of canned fishery products was 5.1 pounds per capita in 1987, down 0.3 pounds from the 5.4 pounds in 1986.

In addition to consumption of commercially caught fish and shellfish, recreational fishermen caught and consumed an estimated 3 to 4 pounds of edible meat per person.

PER CAPITA USE. The per capita use of all fishery products (edible and industrial) was 64.6 pounds (round weight) — up 5.1 pounds compared with 1986. Higher landings and imports of industrial fishery products in 1987 accounted for most of the increase.

REVIEW

PROCESSED FISHERY PRODUCTS

FRESH AND FROZEN

FISH FILLETS AND STEAKS. In 1987 the U.S. production of raw (uncooked) fish fillets and steaks was 276.9 million pounds—2.5 million pounds less than the 279.5 million pounds in 1986. These fillets and steaks were valued at $594.8 million—$30.7 million more than the record set in 1986, when fish fillets and steaks were valued at $564.1 million. Alaska pollock fillets led all species with 65.1 million pounds—24 percent of the total. Production of groundfish fillets and steaks (cod, cusk, haddock, hake, Atlantic ocean perch, and Atlantic pollock) was 93.7 million pounds compared with 107.0 million pounds in 1986.

FISH STICKS AND PORTIONS. The combined production of fish sticks and portions was 415.1 million pounds valued at a record $572.1 million compared with a 1986 production of 428.9 million pounds valued at $488.2 million.

The total production of fish sticks amounted to 98.9 million pounds valued at $142.8 million—increased of 11.6 million pounds in quantity, and $48.6 million in value compared with 1986. The total production of fish portions amounted to 316.2 million pounds valued at $429.3 million—a decrease of 25.4 million pounds in quantity but an increase of $35.3 million in value compared with 1986.

BREADED SHRIMP. The production of breaded shrimp produced in 1987 was 99.5 million pounds valued at $369.0 million, compared with the 1986 production of 107.8 million pounds valued at $358.4 million.

FROZEN FISHERY TRADE. In 1987 stocks of frozen fishery products in cold storage were at a low of 278.7 million pounds on April 30 and a high of 447.5 million pounds on November 30. Cold storage holdings of shrimp products were at a high of 72.4 million pounds on November 30, and a low of 43.9 million pounds on June 30. Saltwater fillets and steaks holdings reached a high of 105.6 million pounds on November 30, and were at a low of 44.2 million pounds on March 31. Holdings of blocks and slabs were at a high of 77.5 million pounds on September 30, and at a low of 38.2 million pounds on May 31. King crab holdings were 5.1 million pounds on January 31, but reached a low of 3.7 million pounds on August 30, 1987. Cold storage holdings were up every month in 1987 compared to 1986, resulting in a 14 percent annual increase from 3.7 billion pounds in 1986 to 4.3 billion pounds in 1987.

CANNED FISHERY PRODUCTS

CANNED FISHERY PRODUCTS. The pack of canned fishery products in the 50 States, American Samoa, and Puerto Rico was 47.2 million standard cases (1.2 billion pounds) valued at $1.5 billion—a decrease of 2.9 million standard cases (160.7 million pounds), but an increase of $15.7 million compared with the 1986 pack. The 1987 pack included 42.9 million standard cases (967.4 million pounds) valued at $1.4 billion for human consumption, and 4.3 million standard cases (203.7 million pounds) valued at $76.9 million for bait and animal food.

CANNED SALMON. The 1987 U.S. pack of natural Pacific salmon was 2.3 million standard cases (112.1 million pounds) valued at $220.6 million, compared with 2.9 million standard cases (141.8 million pounds) valued at $265.1 million packed a year earlier. Alaskan plants accounted for 92 percent in quantity and 95 percent in value of the salmon pack.

CANNED SARDINES. The pack of Maine sardines (sea herring) was 560,510 standard cases (13.1 million pounds) valued at $22.4 million, a decrease of 106,191 standard cases (2.5 million pounds) and $5.3 million compared with 1986. An additional 156,654 standard cases (7.5 million pounds) of herring valued at $12.6 million were packed in 1987—16,019 standard cases (769 thousand pounds) and $1.6 million more than the 1986 pack.

CANNED TUNA. The U.S. pack of tuna was 33.5 million standard cases (653.9 million pounds) valued at $1.0 billion—an increase of 876 thousand standard cases (17.2 million pounds) in quantity, and $136.1 million compared with the 1986 pack. The pack of albacore tuna was 7.1 million standard cases—896 thousand standard cases less than the 8.1 million standard cases produced in 1986. Albacore tuna was 21 percent of the tuna pack in 1987. Lightmeat tuna (bigeye, bluefin, skipjack, and yellowfin) comprised the remainder with a pack of 26.4 million standard cases—1.8 million standard cases more than the 24.6 million standard cases packed in 1986. Plants in the United States packed 6 percent of the total and plants in American Samoa and Puerto Rico packed the remainder.

CANNED CLAMS. The U.S. pack of clams (whole, minced, chowder, and juice) was 4.6 million standard cases (122.3 million pounds) valued at $87.6 million, an increase of 121,539 standard cases (5.9 million pounds) in quantity but $30.0 million less in value than the pack in 1986. The pack of whole and minced clams of 1.3 million standard cases (129,157 standard cases less than the 1986 pack) accounted for 29 percent of the total clam pack. Clam chowder and clam juice (2.9 million standard cases) made up the majority of the remaining pack.

CANNED SHRIMP. The U.S. pack of natural shrimp was 654,531 standard cases (4.4 million pounds) valued at $22.7 million—a decrease of 26,387 standard cases (178 thousand pounds) and $487 thousand compared with the 1986 pack.

OTHER CANNED ITEMS. Tunalike fish (bonito) and natural oysters were packed by less than three firms in 1987. The pack of pet food (10 pounds or more of fish per standard case of 48 one-pound cans) was 4.2 million standard cases valued at $76.9 million—a decrease of 2.4 million standard cases and $22.7 million compared with the pack in 1987.

REVIEW
PROCESSED FISHERY PRODUCTS
INDUSTRIAL FISHERY PRODUCTS

INDUSTRIAL FISHERY PRODUCTS. The value of the domestic production of industrial fishery products was $209.1 million—an increase of $33.7 million (19 percent) compared with the 1986 value of $175.4 million. The leading state was Louisiana ($103.2 million) which accounted for 49 percent of the total U.S. value for 1987.

FISH MEAL AND SCRAP. The domestic production of fish meal and scrap (including shellfish) was 787.2 million pounds valued at $121.2 million—an increase of 85.0 million pounds (12 percent) from 1986 volume and an increase of $37.7 million (45 percent) in value compared to 1986. Menhaden meal production was 668.9 million pounds valued at $105.3 million—an increase of 76.4 million pounds (13 percent) and $32.2 million (44 percent) compared to 1986. Menhaden accounted for 87 percent of the 1987 production of fish meal and scrap. Shellfish meal production was 18.2 million pounds—a decrease of 4.9 million pounds (21 percent) from the 1986 level. Tuna and mackerel meal production was 84.3 million pounds—an increase of 10.1 million pounds (14 percent) from 1986. Production of unclassified meal (consisting mainly of alewives, anchovy, carp, sea herring, and unclassified fish) was 15.8 million pounds—an increase of 3.5 million pounds (28 percent) compared with 1986.

FISH SOLUBLES. Domestic production of fish solubles was 237.5 million pounds, 42.3 million pounds (22 percent) more than the 1986 production. Menhaden solubles accounted for more than 95 percent of the total production.

FISH OILS. The domestic production of fish oils was 298.3 million pounds valued at $35.5 million—a decrease of 38.4 million pounds (11 percent) and $2.8 million (19 percent) compared with 1986 production. The production of menhaden oil was 294.9 million pounds valued at $35.1 million—a decrease of 37.1 million pounds (11 percent) and $8.2 million (19 percent) compared with 1986 levels. Menhaden oil accounted for 99 percent of the volume and the value of the total 1987 fish oil production.

Unclassified oil production decreased by 1.4 million pounds. The 1987 tuna and mackerel oil production is included with unclassified oil for reasons of confidentiality.

OTHER INDUSTRIAL PRODUCTS. Oyster shell products, together with agar-agar, animal feeds, crab and clam shells processed for food serving, fish pellets, Irish moss extracts, kelp products, dry and liquid fertilizers, pearl essence, shark leathers, and mussel shell buttons were valued at $36.0 million, compared with $36.6 million in 1986—a decrease of $600 thousand (2 percent).

FOREIGN TRADE IN FISHERY PRODUCTS

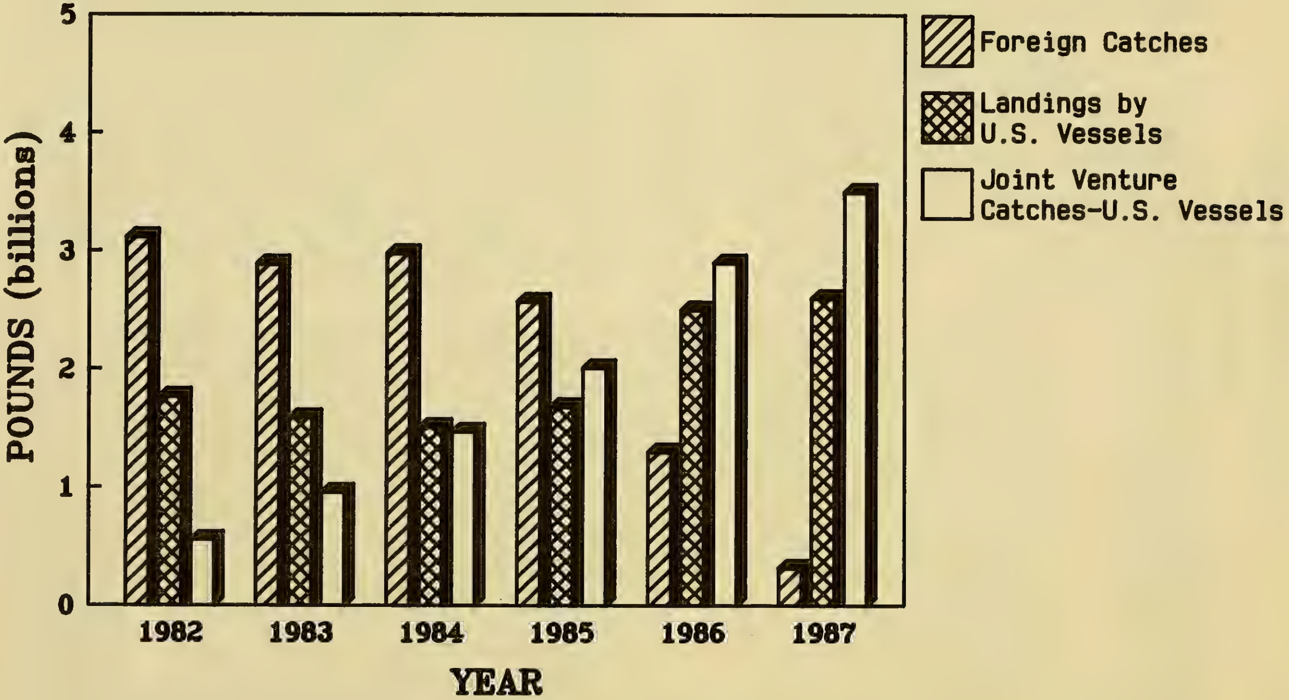
IMPORTS. U.S. imports of edible fishery products in 1987 were valued at a record $5.7 billion, $897.7 million higher than the previous record value established in 1986. The quantity of edible imports was a record 3.2 billion pounds, 222.2 million pounds more than the previous record quantity imported in 1986. The quantity of shrimp imported in 1987 established a record with 478.3 million pounds, 78.2 million pounds more than the previous record quantity imported in 1986. Valued at $1.7 billion, $275.9 million more than the 1986 value, shrimp imports accounted for 30 percent of the value of total edible imports. Imports of fresh and frozen tuna, 572.5 million pounds, increased 8.7 million pounds more than the 563.8 million pounds imported in 1986. Imports of canned tuna not in oil decreased for the first year after eight consecutive years to 211.4 million pounds — 25.0 million pounds less than the record 236.3 million pounds imported in 1986. Imports of fresh and frozen fillets and steaks amounted to a record 621.0 million pounds, an increase of 82.5 million pounds over 1986. Regular and minced block imports were 403.6 million pounds, an increase of 39.7 million pounds from 1986. Edible imports consisted of 2.7 billion pounds of fresh and frozen products valued at $5.0 billion, 428.7 million pounds of canned products valued at $515.9 million, 64.1 million pounds of cured products valued at $92.9 million, and 16.1 million pounds of other products valued at $29.3 million. Analog products (surimi) amounted to 30.5 million pounds valued at $51.2 million in 1987, compared to 34.3 million pounds valued at $58.5 million in 1986.

Imports of nonedible fishery products were valued at a record $3.1 billion — $293.7 million more than the $2.8 billion imported in 1986. Total value of edible and nonedible products resulted in a record import value of $8.8 billion in 1987 -- $1.2 billion more than the previous record in 1986, when $7.6 billion of fishery products were imported.

EXPORTS. U.S. exports of edible fishery products of domestic origin were a record 782.9 million pounds valued at a record $1.6 billion, compared with 735.0 million pounds valued at $1.3 billion exported in 1986. Fresh and frozen items were 694.8 million pounds valued at $1.3 billion, increases of 79.3 million pounds and $290.6 million compared with 1986. Fresh and frozen exports consisted principally of 269.7 million pounds of salmon valued at $608.6 million and 95.0 million pounds of herring valued at $84.0 million. Canned items were 53.6 million pounds valued at $120.3 million, down 26.0 million pounds and $12.0 million from 1986 levels. Salmon was the major canned item exported, with 35.9 million pounds valued at $85.8 million. Cured items were 34.3 million pounds valued at $122.7 million, a decrease of 5.1 million pounds but an increase of $9.7 million compared with 1986. Cured exports consisted mainly of salmon and herring roe, which amounted to 23.7 million pounds valued at $94.8 million. The $213.8 million received for U.S.-flag vessel catches transferred onto foreign vessels in the U.S. EEZ in joint venture operations are not included in the export statistics.

Exports of nonedible products were valued at $82.8 million — $16.5 million more than the $66.3 million exported in 1986. Exports of menhaden oil amounted to 247.6 million pounds valued at $21.6 million, increases of 58.7 million pounds and $1.8 million compared with 1986. Thus, menhaden oil exports accounted for 26 percent of the value of total nonedible exports in 1987. The total value of edible and nonedible exports was $1.7 billion — an increase of $304.3 million compared with 1986.

COMMERCIAL CATCHES IN THE U.S. EXCLUSIVE ECONOMIC ZONE (EEZ)
1982 - 1987



U.S. COMMERCIAL LANDINGS, BY SPECIES, 1986 AND 1987 (1)

Species	1986		1987		(1982-86)
Fish	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds
Alewives:					
Atlantic and Gulf	10,064	946	6,145	616	11,222
Great Lakes	19,218	488	14,396	1,052	34,275
Anchovies	13,436	2,523	12,857	2,706	14,283
Bluefish	13,968	2,413	15,226	3,254	14,689
Bonito	724	148	11,420	2,507	5,290
Butterfish	9,880	6,576	10,315	6,496	14,912
Cod:					
Atlantic	61,134	36,142	59,100	44,179	91,529
Pacific	104,443	11,337	170,611	31,443	104,040
Croaker	12,382	3,883	11,044	4,396	11,275
Cusk	4,148	1,775	3,064	1,649	4,365
Flounders:					
Atlantic and Gulf:					
Blackback	17,253	16,898	19,310	22,948	27,456
Fluke	30,072	35,923	30,271	41,783	33,442
Yellowtail	22,910	21,041	16,667	20,810	41,535
Other	35,127	31,736	27,422	30,352	43,508
Pacific	63,688	18,988	106,041	29,187	67,385
Total	169,050	124,586	199,711	145,080	307,997
Grouper	11,482	18,680	9,494	16,058	12,579
Haddock	10,968	10,911	6,673	8,522	25,756
Hake:					
Pacific (whiting)	25,615	1,182	38,783	1,900	17,923
Red	4,630	671	4,428	866	4,662
White	14,591	4,912	13,485	5,466	14,725
Halibut	77,691	82,925	76,107	88,254	53,030
Herring, sea:					
Atlantic	79,381	4,314	84,536	4,368	66,904
Pacific	130,764	44,598	122,598	47,916	127,228
Jack mackerel	23,672	1,775	26,671	1,831	33,058
Lingcod	5,738	1,726	7,027	2,603	8,381
Mackerel:					
Atlantic	9,353	1,210	9,933	1,065	7,318
King	5,482	5,719	4,577	4,981	6,197
Pacific	85,444	6,408	93,755	6,433	77,867
Spanish	6,456	1,933	6,838	2,249	6,169
Menhaden:					
Atlantic	564,816	26,260	712,454	33,901	777,977
Gulf	1,826,547	67,502	1,999,831	70,524	1,972,165
Total	2,391,363	93,762	2,712,285	104,425	2,750,142
Mullets	21,646	6,043	30,125	8,224	23,861
Ocean perch:					
Atlantic	6,576	3,160	4,202	2,709	12,136
Pacific	15,585	3,116	19,982	4,478	8,958
Pollock:					
Atlantic	54,469	14,044	45,645	17,916	39,931
Alaska	130,424	7,167	552,048	45,849	50,716
Rockfishes	92,029	28,265	117,881	38,153	97,315
Sablefish	84,868	45,879	102,698	58,107	57,068
Salmon, Pacific:					
Chinook or king	30,845	50,630	39,938	80,068	27,754
Chum or keta	86,459	34,589	86,320	43,801	92,848
Pink	268,646	55,325	169,308	56,459	255,802
Red or sockeye	212,212	305,407	227,411	359,767	237,655
Silver or coho	60,359	47,986	39,041	56,281	50,659
Total	658,521	493,937	562,018	596,376	664,718
Scup or porgy	16,181	9,476	14,295	9,810	18,346
Sea bass:					
Black	4,664	4,449	4,967	5,094	4,250
White	97	196	116	223	96
Sea trout:					
Gray	20,602	7,086	17,927	7,499	18,705
Spotted	3,422	3,028	3,395	3,181	3,272
White	620	286	549	234	639
Sharks:					
Dogfish	11,114	964	14,167	1,573	12,523
Other	5,928	4,318	7,665	5,338	5,298

See notes at end of table.

(Continued)

U.S. COMMERCIAL LANDINGS, BY SPECIES, 1986 AND 1987 (1) - Continued

Species	1986		1987		(1982-86)
Fish -continued	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds
Snapper:					
Red	4,489	9,820	3,737	8,661	5,705
Other	4,418	7,599	5,171	10,034	3,977
Striped bass	335	338	431	485	1,616
Swordfish	9,671	30,508	9,761	34,974	11,312
Tilefish	5,985	7,275	7,950	8,852	6,313
Tuna:					
Albacore	11,368	6,087	7,728	6,037	19,542
Bigeye	1,384	5,092	3,305	9,445	1,289
Bluefin	10,687	6,791	4,332	16,463	8,856
Skipjack	5,103	3,237	15,919	8,700	63,800
Yellowfin	58,128	32,126	67,572	54,152	91,682
Unclassified	1,141	1,242	1,202	1,006	1,190
Total	87,811	54,575	100,058	95,803	186,359
Whiting	39,924	8,312	34,673	11,584	40,738
Other marine finfishes.	165,481	50,320	199,795	67,731	-
Other freshwater finfishes	124,826	47,430	117,880	45,838	-
Total	4,870,763	1,319,134	5,708,215	1,629,041	-
Shellfish et al.					
Clams:					
Hard	11,793	46,808	11,418	49,593	14,056
Ocean quahog	45,383	15,716	50,255	16,576	41,237
Soft	5,887	18,435	7,469	19,770	7,630
Surf	78,749	42,613	60,744	27,993	65,434
Other	3,581	11,338	4,471	18,929	2,158
Total	145,393	134,910	134,357	132,861	130,515
Crabs:					
Blue, hard	184,491	58,005	197,826	70,776	192,760
Dungeness	22,408	29,107	29,460	38,492	27,456
King	25,909	87,655	29,065	98,929	24,510
Snow (tanner)	110,000	83,408	113,812	98,684	74,870
Other	12,852	11,963	16,205	14,994	14,972
Total	355,660	270,138	386,368	321,875	334,568
Lobsters:					
American	46,053	120,556	45,558	133,554	43,965
Spiny	6,775	19,247	5,755	21,317	6,009
Oysters	40,544	78,068	39,807	92,423	47,498
Scallops:					
Bay	735	6,527	580	3,159	1,582
Calico	1,616	3,087	8,155	8,889	14,815
Sea	19,992	97,415	32,038	132,263	19,210
Shrimp:					
New England	10,328	6,520	11,081	12,158	19,210
South Atlantic	23,120	59,513	22,905	46,396	6,708
Gulf	304,051	563,045	257,148	469,281	24,493
Pacific	62,686	33,666	72,008	50,247	245,919
Other	-	-	(2)	2	111
Total	400,185	662,744	363,142	578,084	296,330
Squid:					
Atlantic	33,145	10,279	38,883	12,493	28,303
Pacific	42,262	4,368	43,166	4,300	21,419
Other shellfish (marine and freshwater)	67,511	36,350	89,702	44,454	-
Total shellfish et al.	1,159,871	1,443,689	1,187,511	1,485,672	-
Grand total	6,030,634	2,762,823	6,895,726	3,114,713	-

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(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell).

(2) Less than 500 lb.

Note:--Data are preliminary. Data do not include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States, or catches by U.S.-flag vessels unloaded onto foreign vessels within the U.S. EEZ (joint ventures). Therefore, they will not agree with "U.S. Commercial Landings" table on page 6. Data do not include aquaculture products, except oysters and clams.

U.S. COMMERCIAL LANDINGS

DISPOSITION OF U.S. DOMESTIC LANDINGS, 1986 AND 1987 (PRELIMINARY)

End Use	1986		1987	
	Million pounds	Percent	Million pounds	Percent
Fresh and frozen:				
For human food. . .	2,325	38.6	2,827	41.0
For bait and animal food. . . .	162	2.7	199	2.9
Total. . . .	2,487	41.2	3,026	43.9
Canned:				
For human food. . .	1,008	16.7	1,061	15.4
For bait and animal food. . . .	126	2.1	110	1.6
Total. . . .	1,134	16.7	1,171	15.4
Cured for human food.	60	1.0	58	0.8
Reduction to meal, oil, etc..	2,350	39.0	2,641	38.3
Grand total. . .	6,031	100.0	6,896	100.0

NOTE:--Data are preliminary. Table may not add to rounding.

DISPOSITION OF U.S. COMMERCIAL LANDINGS, BY MONTH, 1987 (PRELIMINARY)

Month	Landings for Human food		Landings for Industrial purposes (1)		Total	
	Million pounds	Percent	Million pounds	Percent	Million pounds	Percent
January.	194	4.9	15	0.5	209	3.0
February	212	5.4	17	0.6	229	3.3
March.	235	6.0	19	0.6	254	3.7
April.	303	7.7	210	7.1	513	7.4
May.	334	8.5	429	14.5	763	11.1
June	394	10.0	490	16.6	884	12.8
July	545	13.8	476	16.1	1,021	14.8
August	519	13.2	448	15.2	967	14.0
September.	392	9.9	465	15.8	857	12.4
October.	326	8.3	234	7.9	560	8.1
November	255	6.5	104	3.5	359	5.2
December	237	6.0	43	1.5	280	4.1
Total.	3,946	100.0	2,950	100.0	6,896	100.0

(1) Processed into meal, oil, solubles, and shell products, and used as bait and animal food.

U.S. COMMERCIAL LANDINGS OF FISH AND SHELLFISH, 1978-87 (1)

Year	Landings for Human Food		Landings for Industrial Purposes (1)		Total	
	Million pounds	Million dollars	Million pounds	Million dollars	Million pounds	Million dollars
1978 (3).	3,177	1,733	2,851	121	6,028	1,854
1979 (3).	3,318	2,093	2,949	141	6,267	2,234
1980 (3).	3,654	2,092	2,828	145	6,482	2,237
1981 (3).	3,547	2,277	2,430	111	5,977	2,388
1982 (3).	3,285	2,247	3,082	143	6,367	2,390
1983 (3).	3,238	2,203	* 3,201	152	6,439	2,355
1984 (3).	3,320	2,206	3,118	144	6,438	2,350
1985 (3).	3,294	2,198	2,964	128	6,258	2,326
1986 (3).	3,393	2,641	2,638	122	6,031	2,763
1987 (3).	* 3,946	2,979	2,950	136	*6,896	3,115

(1) Statistics on landings are shown in round weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are shown in weight of meats (excluding the shell). (2) processed into fish meal, oil, solubles, and shell products, or used as bait or animal food. (3) Data are preliminary.

NOTE:--Joint venture catches are included in 1979. Data do not include landings outside the 50 states or products of aquaculture, except oysters and clams. *Records.

U.S. COMMERCIAL LANDINGS, BY STATES, 1986 AND 1987 (1)

States	1986		1987		Record Landings	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Year	Thousand pounds
Alabama..............	36,690	63,988	24,459	44,615	1973	39,749
Alaska...............	1,236,062	752,417	1,697,547	941,690	1987	1,697,547
Arkansas.............	17,347	7,717	18,179	8,565	-	(3)
California...........	386,740	139,205	451,663	173,234	1936	1,760,193
Connecticut..........	6,703	15,546	8,562	15,974	1930	88,012
Delaware.............	4,829	1,999	6,022	2,308	1953	367,500
Florida..............	166,577	154,501	172,734	156,626	1938	241,443
Georgia..............	15,476	24,501	14,961	19,624	1927	47,607
Hawaii...............	10,590	20,082	16,088	29,056	1984	34,824
Illinois (2).........	6,742	2,054	7,081	2,348	-	(3)
Indiana..............	959	896	1,399	1,863	-	(3)
Louisiana............	1,699,321	321,514	1,803,944	315,933	1984	1,931,027
Maine................	174,932	108,720	170,082	132,420	1950	356,266
Maryland.............	88,831	51,450	81,658	53,458	1890	141,607
Massachusetts........	272,393	243,524	258,066	278,913	1948	649,696
Michigan.............	15,750	7,056	15,072	7,647	1930	35,580
Minnesota (2)........	13,256	3,998	13,730	4,408	-	(3)
Mississippi (2)......	418,409	45,581	436,729	48,228	1984	476,997
New Hampshire........	7,925	6,180	8,287	7,738	-	(3)
New Jersey...........	108,259	66,665	116,141	72,643	1956	540,060
New York.............	43,628	45,482	40,882	53,352	1880	335,000
North Carolina.......	168,885	63,435	156,608	63,461	1981	432,006
Ohio.................	3,470	734	3,217	843	1936	31,083
Oregon...............	113,431	62,403	138,545	95,293	1978	134,657
Pennsylvania.........	324	158	195	148	-	(3)
Rhode Island.........	101,542	75,089	100,150	77,414	1889	128,056
South Carolina.......	16,788	25,064	15,003	22,047	1965	26,611
Texas................	116,493	246,122	111,216	199,662	1960	237,684
Virginia.............	528,239	79,410	709,595	106,195	1941	751,069
Washington...........	186,756	111,347	205,073	150,181	-	(3)
Wisconsin (2)........	43,246	6,800	38,944	8,787	-	(3)
Other (2)............	20,041	9,185	53,894	20,039	-	(3)
Grand Total.......	6,030,634	2,762,823	6,895,726	3,114,713	1987	6,895,726

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell).
(2) Estimated State landings from the Mississippi River and its tributaries are included in "other."
(3) Not available.

NOTE:--Data are preliminary. Data do not include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States, or catches by U.S.-flag vessels unloaded onto foreign vessels within the U.S. EEZ (joint venture). Therefore, they will not agree with "U.S. Commercial Landings" table on page 6. Data do not include aquaculture products, except oysters and clams.

U.S. COMMERCIAL LANDINGS, BY REGIONS, 1986 AND 1987 (PRELIMINARY)

Region	1986		1987	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
New England.	554,658	448,592	545,147	512,459
Middle Atlantic.	155,942	113,616	162,797	128,049
Chesapeake	617,070	130,860	791,253	159,653
South Atlantic	248,634	154,681	235,091	150,361
Gulf	2,367,870	781,235	2,500,563	719,835
Pacific Coast and Alaska	1,922,989	1,065,372	2,492,828	1,360,398
Great Lakes.	48,169	13,757	41,788	16,940
Hawaii	10,590	20,082	16,088	29,056
Other.	104,712	34,628	110,171	37,962
Total	6,030,634	2,762,823	6,895,726	3,114,713

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell).

NOTE:--Data are preliminary. Data do not include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States, or catches by U.S.-flag vessels unloaded onto foreign vessels within the U.S. EEZ (joint venture). Therefore, they will not agree with "U.S. Commercial Landings" table on page 6. Data do not include aquaculture products, except oysters and clams.

COMMERCIAL FISHERY LANDINGS AND VALUE AT MAJOR U.S. PORTS, 1986-87

	Quantity		
Port	1985	1986	1987
Cameron, LA	673.6	616.8	672.4
Pascagoula-Moss Point, MS	423.2	365.5	391.6
Empire-Venice, LA	224.5	317.6	357.4
Dulac-Chauvin, LA	398.6	294.6	331.7
Intercoastal City, LA	(1)	298.9	314.3
Kodiak, AK	96.1	141.2	204.1
Los Angeles, CA	150.3	187.4	203.1
Dutch Harbor-Unalaska, AK	106.3	88.3	128.2
Gloucester, MA	116.5	110.0	93.0
Beaufort-Morehead City, NC	133.2	98.9	85.7
New Bedford, MA	90.6	65.8	78.7
Cordova, AK	(1)	(1)	69.6
Cape May-Wildwood, NJ	30.3	36.6	56.8
Bellingham, WA	38.8	45.9	47.5
Astoria, OR	25.5	36.8	46.6
Point Judith, RI	56.8	52.1	46.6
Portland, ME	36.1	34.9	43.8
Petersburg, AK	(1)	85.2	42.4
Port Hueneme-Oxnard-Ventura, CA	19.9	31.0	42.3
Rockland, ME	58.6	43.4	38.7
Biloxi, MS	41.1	46.7	38.2
Newport, OR	29.4	26.7	35.9
Coos Bay-Charleston, OR	25.6	24.3	29.6
Hampton Roads Area, VA	24.4	24.8	29.6
Eureka, CA	28.5	19.4	28.5
Wanchese-Stumpy Point, NC	22.7	27.2	28.3
Ketchikan, AK	(1)	42.2	27.6
Golden Meadow-Leeville, LA	18.2	25.1	27.4
Sitka, AK	(1)	25.2	27.1
San Francisco Area, CA	31.0	25.9	27.0
Morgan City-Berwick, LA	7.7	17.4	27.0
Westport, WA	12.8	22.9	26.2
Fort Bragg, CA	16.0	17.8	25.9
Atlantic City, NJ	21.9	22.0	24.9
Everett, WA	12.5	12.8	23.5
Crescent City, CA	19.8	20.9	23.1
Boston, MA	19.8	31.4	23.0
Ocean City, MD	24.5	29.1	22.5
Seattle, WA	42.2	38.2	22.2
Ilwaco-Chinook, WA	7.0	18.3	18.8
Blaine, WA	18.7	14.3	17.9
Monterey, CA	18.2	16.4	16.1
Bayou La Batre, AL	21.0	25.6	15.1
Montauk, NY	8.4	11.0	14.7
Cape Canaveral, FL	20.3	8.1	14.6
Delcambre, LA	7.7	18.7	13.9
Brownsville-Port Isabel, TX	22.9	25.5	13.4
Bodega Bay, CA	6.9	8.5	12.9
Lafitte-Barataria, LA	20.6	16.8	12.7
Delacroix-Yscloskey, LA	11.0	16.3	12.5

	Value		
Port	1985	1986	1987
New Bedford, MA	103.2	106.0	*143.7
Kodiak, AK	65.8	89.8	132.1
Dulac-Chauvin, LA	59.9	71.0	65.6
Dutch Harbor-Unalaska, AK	21.3	37.2	62.7
Empire-Venice, LA	34.3	47.1	60.1
Los Angeles, CA	32.5	29.5	55.6
Brownsville-Port Isabel, TX	49.6	69.3	54.2
Hampton Roads Areas, VA	22.5	23.6	46.2
Cordova, AK	(1)	(1)	41.9
Petersburg, AK	(1)	38.1	36.9
Golden Meadow-Leeville, LA	23.5	40.0	36.6
Aransas Pass-Rockport, TX	43.0	60.3	36.4
Portland, ME	17.2	22.4	35.8
Gloucester, MA	37.1	37.8	34.0
Sitka, AK	(1)	21.8	33.6
Cameron, LA	29.9	34.8	31.9
Cape May-Wildwood, NJ	18.1	20.9	30.5
Bayou La Batre,AL	30.4	43.3	29.5
Point Judith, RI	28.0	28.5	27.4
Bellingham, WA	16.6	28.8	27.4
Astoria, OR	9.5	16.4	24.6
Freeport, TX	17.2	26.7	23.6
Port Arthur, TX	22.6	29.9	22.9
Ketchikan, AK	(1)	20.6	22.8
Beaufort-Morehead City, NC	22.7	24.7	22.7
Key West, FL	23.3	27.4	22.4
Delcambre, LA	12.7	28.4	22.1
Newport, OR	12.8	13.5	21.9
Seattle, WA	18.7	21.8	21.9
Cape Canaveral, FL	21.2	15.9	21.7
Pascagoula-Moss Point, MS	18.4	20.4	20.3
Lafitte-Barataria, LA	29.0	24.1	19.2
Coos Bay-Charleston, OR	10.4	11.9	19.1
Boston, MA	12.1	19.1	16.9
Montauk, NY	8.9	12.8	15.9
Westport, WA	9.8	11.3	15.8
Blaine, WA	12.3	11.1	15.2
Biloxi, MS	13.4	15.2	14.2
Wanchese-Stumpy Point, NC	13.3	12.3	13.9
Apalachicola,, FL	12.4	12.4	13.8
Intercoastal City, LA	(1)	11.3	13.4
Bodega Bay, CA	5.4	6.1	13.4
Ilwaco-Chinook, WA	2.7	9.1	13.1
Delacroix-Yscloskey, LA	10.6	12.5	13.1
Bon Secour-Gulf Shores, AL	10.2	13.5	13.0
Grand Isle, LA	12.4	11.9	12.6
Eureka, CA	10.7	8.3	12.6
San Francisco Area, CA	12.5	11.1	12.5
Fort Bragg, CA	7.8	8.5	12.5
Newport, RI	13.7	12.8	12.4

(1) Not available. *Record. Record quantity was 848.2 million lb landed in Los Angeles, California in 1960.

NOTE:--To avoid disclosure of private enterprise certain leading ports have not been included.

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1987 (1)

	Distance caught off U.S. shores				International waters (Includes catch off foreign coasts)		Total	
	0 to 3 miles (2)		3 to 200 miles					
Fish	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Alewives:								
Atlantic and Gulf.	6,042	611	151	5	-	-	6,193	616
Great Lakes. . . .	14,396	1,052	-	-	-	-	14,396	1,052
Anchovies.	1,439	323	11,418	2,383	-	-	12,857	2,706
Bluefish	10,606	2,265	4,620	989	-	-	15,226	3,254
Bonito	107	43	11,313	2,464	-	-	11,420	2,507
Butterfish	619	310	9,696	6,186	-	-	10,315	6,496
Cod:								
Atlantic	1,296	1,004	57,258	42,801	546	374	59,100	44,179
Pacific.	25,432	4,664	276,399	42,113	-	-	301,831	46,777
Croaker.	9,652	3,832	1,392	564	-	-	11,044	4,396
Cusk	21	8	3,005	1,620	38	21	3,064	1,649
Flounders:								
Atlantic and Gulf:								
Blackback. . . .	3,176	3,031	16,090	19,871	44	46	19,310	22,948
Fluke.	8,832	11,944	21,439	29,839	-	-	30,271	41,783
Yellowtail . . .	670	895	12,618	17,234	3,379	2,681	16,667	20,810
Other.	2,003	1,654	21,825	26,019	3,594	2,679	27,422	30,352
Pacific.	46,251	7,372	554,171	55,087	-	-	600,422	62,459
Total	60,932	24,896	626,143	148,050	7,017	5,406	694,092	178,352
Groupers	166	290	9,328	15,768	-	-	9,494	16,058
Haddock.	6	10	6,628	8,456	39	56	6,673	8,522
Hake:								
Pacific (whiting).	27,853	1,228	478,293	23,978	-	-	506,146	25,206
Red.	153	27	4,275	839	-	-	4,428	866
White.	28	10	13,273	5,364	184	92	13,485	5,466
Halibut.	27,187	30,743	48,912	57,490	8	21	76,107	88,254
Herring, sea:								
Atlantic	42,782	2,390	41,754	1,978	-	-	84,536	4,368
Pacific.	122,598	47,916	-	-	-	-	122,598	47,916
Jack mackerel. . . .	-	-	26,671	1,831	-	-	26,671	1,831
Lingcod.	579	204	6,448	2,399	-	-	7,027	2,603
Mackerel:								
Atlantic	1,158	216	26,438	1,907	-	-	27,596	2,123
King	719	848	3,858	4,133	-	-	4,577	4,981
Pacific.	3	(3)	93,752	6,433	-	-	93,755	6,433
Spanish.	2,258	696	4,580	1,553	-	-	6,838	2,249

See footnotes at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1987 (1)—continued

	Distance caught off U.S. shores				International waters (Includes catch off foreign coasts)		Total	
	0 to 3 miles (2)		3 to 200 miles					
Fish	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Menhaden								
Atlantic	710,310	33,864	2,144	37	-	-	712,454	33,901
Gulf	1,374,314	48,879	625,517	21,645	-	-	1,999,831	70,524
Total	2,084,624	82,743	627,661	21,682	-	-	2,712,285	104,425
Mullet	30,124	8,224	1	(3)	-	-	30,125	8,224
Ocean perch:								
Atlantic	3	2	4,097	2,636	102	71	4,202	2,709
Pacific.	8,046	1,470	13,162	3,181	-	-	21,208	4,651
Pollock:								
Atlantic	129	51	45,286	17,749	230	116	45,645	17,916
Alaska	82,766	6,870	2,800,238	173,281	-	-	2,883,004	180,151
Rockfishes	15,108	4,028	103,478	34,225	-	-	118,586	38,253
Sablefish.	11,045	6,520	91,924	51,624	-	-	102,969	58,144
Salmon, Pacific:								
Chinook or king. .	27,297	51,446	12,641	28,622	-	-	39,938	80,068
Chum or keta . . .	86,319	43,800	1	1	-	-	86,320	43,801
Pink	169,264	56,424	44	35	-	-	169,308	56,459
Red or sockeye . .	227,411	359,767	-	-			227,411	359,767
Silver or coho . .	34,677	48,713	4,364	7,568	-	-	39,041	56,281
Total	544,968	560,150	17,050	36,226	-	-	562,018	596,376
Scup or porgy. . . .	4,035	2,603	10,260	7,207	-	-	14,295	9,810
Sea bass:								
Black.	601	892	4,366	4,202	-	-	4,967	5,094
White.	51	98	65	125	-	-	116	223
Sea trout:								
Gray	11,954	5,525	5,973	1,974	-	-	17,927	7,499
Spotted.	3,391	3,178	4	3	-	-	3,395	3,181
White.	322	152	227	82	-	-	549	234
Sharks:								
Dogfish.	9,633	1,204	4,534	369	-	-	14,167	1,573
Other.	888	501	6,748	4,803	29	34	7,665	5,338
Snapper:								
Red.	60	185	3,677	8,476	-	-	3,737	8,661
Other.	602	1,200	4,569	8,834	-	-	5,171	10,034
Striped bass	407	450	24	35	-	-	431	485
Swordfish.	8	27	7,455	27,364	2,298	7,583	9,761	34,974
Tilefish	-	-	7,950	8,852	-	-	7,950	8,852

See footnotes at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1987 (1)—continued

	Distance caught off U.S. shores				International waters (Includes catch off foreign coasts)		Total	
	0 to 3 miles (2)		3 to 200 miles					
Fish	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Tuna:								
Albacore	3	1	4,795	3,932	4,735	3,405	9,533	7,338
Bigeye	8	20	2,910	8,646	527	848	3,445	9,514
Bluefin.	1	3	2,575	13,944	1,756	2,516	4,332	16,463
Skipjack	-	-	4,226	3,882	225,962	85,140	230,188	89,022
Yellowfin.	490	637	16,884	28,015	360,170	169,437	377,544	198,089
Unclassified . . .	146	21	762	518	294	467	1,202	1,006
Total	648	682	32,152	58,937	593,444	261,813	626,244	321,432
Whiting.	1,006	342	33,678	11,242	-	-	34,684	11,584
Other marine finfishes	147,040	40,828	157,519	34,629	324	145	304,883	75,602
Other freshwater finfishes	117,880	45,838	-	-			117,880	45,838
Total fish. . .	3,431,371	897,349	5,747,703	897,042	604,259	275,732	9,783,333	2,070,123
Shellfish et al.								
Clams:								
Hard	11,418	49,593	-	-	-	-	11,418	49,593
Ocean quahog . . .	1,254	2,420	49,001	14,156	-	-	50,255	16,576
Soft	7,466	19,761	3	9	-	-	7,469	19,770
Surf	11,918	5,001	48,826	22,992	-	-	60,744	27,993
Other.	4,471	18,929	-	-	-	-	4,471	18,929
Total	36,527	95,704	97,830	37,157	-	-	134,357	132,861
Crabs:								
Blue, hard	197,784	70,763	42	13	-	-	197,826	70,776
Dungeness.	22,364	29,110	7,096	9,382	-	-	29,460	38,492
King	635	2,058	28,430	96,871	-	-	29,065	98,929
Snow (tanner). . .	8,114	17,363	105,698	81,321	-	-	113,812	98,684
Other.	5,968	4,021	10,187	10,955	50	18	16,205	14,994
Total	234,865	123,315	151,453	198,542	50	18	386,368	321,875

See footnotes at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1987 (1) - continued

	Distance caught off U.S. shores				International waters (Includes catch off foreign coasts)		Total	
	0 to 3 miles (2)		3 to 200 miles					
Shellfish et al.	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Lobsters:								
American	38,133	107,543	7,351	25,683	74	328	45,558	133,554
Spiny.	1,386	5,390	4,369	15,927	-	-	5,755	21,317
Oysters.	39,807	92,423	-	-			39,807	92,423
Scallops:								
Bay.	580	3,159	-	-			580	3,159
Calico	-	-	8,155	8,889	-	-	8,155	8,889
Sea.	1,403	5,941	30,635	126,322	-	-	32,038	132,263
Shrimp:								
New England. . . .	1,581	1,754	9,500	10,404	-	-	11,081	12,158
South Atlantic . .	16,571	35,315	6,334	11,081	-	-	22,905	46,396
Gulf	148,242	221,381	108,906	247,900	-	-	257,148	469,281
Pacific Coast. . .	8,777	6,435	63,231	43,812	-	-	72,008	50,247
Other.	-	-	(3)	2	-	-	(3)	2
Total	175,171	264,885	187,971	313,199	-	-	363,142	578,084
Squid:								
Atlantic	6,748	2,585	41,247	11,285	-	-	47,995	13,870
Pacific.	9	4	43,157	4,296	-	-	43,166	4,300
Other shellfish. . .	93,938	53,667	1,862	2,283	-	-	95,800	55,950
Total shellfish et al.. . .	628,567	754,616	574,030	743,583	124	346	1,202,721	1,498,545
Grand Total 1987	4,059,938	1,651,965	6,321,733	1,640,625	604,383	276,078	10,986,054	3,568,668
Grand Total 1986 (4)	*3,496,893*	*1,449,431*	*5,351,481*	*1,432,616*	*543,307*	*207,882*	*9,391,681*	*3,089,929*

(1) Landings are reported in round (live) weight for all items, except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell.) The National Marine Fisheries Service estimated the distance from shore for Texas landings data collected by Texas Parks and Wildlife Department.

(2) Includes landings from the Great Lakes and other inland waters.

(3) Less than 500 pounds or $500.

(4) For individual species breakout see "Fisheries of the U.S., 1986" pages 8-11.

Note:-- Data are preliminary. Data include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States, and catches by U.S.-flag vessels unloaded onto foreign vessels within the U.S. EEZ (joint ventures.) Therefore, they will not agree with "U.S. Commercial Landings" table beginning on page one. Data do not include aquaculture products, except oysters and clams.

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1987 (1)

	Distance caught off U.S. shores				International waters (Includes catch off foreign coasts)		Total	
	0 to 3 miles (2)		3 to 200 miles					
Fish	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars
Alewives:								
Atlantic and Gulf	2,741	611	68	5	-	-	2,809	616
Great Lakes	6,530	1,052	-	-	-	-	6,530	1,052
Anchovies	653	323	5,179	2,383	-	-	5,832	2,706
Bluefish	4,811	2,265	2,095	989	-	-	6,906	3,254
Bonito	49	43	5,131	2,464	-	-	5,180	2,507
Butterfish	281	310	4,398	6,186	-	-	4,679	6,496
Cod:								
Atlantic	588	1,004	25,971	42,801	248	374	26,807	44,179
Pacific	11,536	4,664	125,372	42,113	-	-	136,908	46,777
Croaker	4,378	3,832	631	564	-	-	5,009	4,396
Cusk	10	8	1,363	1,620	17	21	1,390	1,649
Flounders:								
Atlantic and Gulf:								
Blackback	1,441	3,031	7,298	19,871	44	46	19,310	22,948
Fluke	4,006	11,944	9,725	29,839	-	-	30,271	41,783
Yellowtail	304	895	5,723	17,234	3,379	2,681	16,667	20,810
Other	909	1,654	9,899	26,019	3,594	2,679	27,422	30,352
Pacific	20,979	7,372	251,368	55,087	-	-	600,422	62,459
Total	27,639	24,896	284,013	148,050	3,183	5,406	314,835	178,352
Groupers	75	290	4,231	15,768	-	-	4,306	16,058
Haddock	3	10	3,006	8,456	18	56	3,027	8,522
Hake:								
Pacific (whiting)	12,634	1,228	216,950	23,978	-	-	229,584	25,206
Red	69	27	1,940	839	-	-	2,009	866
White	13	10	6,021	5,364	83	92	6,117	5,466
Halibut	12,332	30,743	22,186	57,490	4	21	34,522	88,254
Herring, sea:								
Atlantic	19,406	2,390	18,939	1,978	-	-	38,345	4,368
Pacific	55,609	47,916	-	-	-	-	55,609	47,916
Jack mackerel	-	-	12,098	1,831	-	-	12,098	1,831
Lingcod	263	204	2,924	2,399	-	-	3,187	2,603
Mackerel:								
Atlantic	525	216	11,992	1,907	-	-	12,517	2,123
King	326	848	1,750	4,133	-	-	2,076	4,981
Pacific	1	(3)	42,526	6,433	-	-	42,527	6,433
Spanish	1,024	696	2,078	1,553	-	-	3,102	2,249

See footnotes at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1987 (1) - continued

	Distance caught off U.S. shores				International waters (Includes catch off foreign coasts)		Total	
	0 to 3 miles (2)		3 to 200 miles					
Fish	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars
Menhaden								
Atlantic	322,191	33,864	972	37	-	-	323,163	33,901
Gulf	623,378	48,879	283,729	21,645	-	-	907,107	70,524
Total	945,569	82,743	284,701	21,682	-	-	1,230,270	104,425
Mullet	13,664	8,224	-	-	-	-	13,664	8,224
Ocean perch:								
Atlantic	1	2	1,859	2,636	46	71	1,906	2,709
Pacific.	3,650	1,470	5,970	3,181	-	-	9,620	4,651
Pollock:								
Atlantic	59	51	20,541	17,749	104	116	20,704	17,916
Alaska	37,542	6,870	1,270,166	173,281	-	-	1,307,708	180,151
Rockfishes	6,853	4,028	46,937	34,225	-	-	53,790	38,253
Sablefish.	5,010	6,520	41,696	51,624	-	-	46,706	58,144
Salmon, Pacific:								
Chinook or king. .	12,382	51,446	5,734	28,622	-	-	18,116	80,068
Chum or keta . . .	39,154	43,800	(3)	1	-	-	39,154	43,801
Pink	76,777	56,424	20	35	-	-	76,797	56,459
Red or sockeye . .	103,152	359,767	-	-	-	-	103,152	359,767
Silver or coho . .	15,729	48,713	1,980	7,568	-	-	17,709	56,281
Total	247,194	560,150	7,734	36,226	-	-	254,928	596,376
Scup or porgy. . . .	1,830	2,603	4,654	7,207	-	-	6,484	9,810
Sea bass:								
Black.	273	892	1,980	4,202	-	-	2,253	5,094
White.	23	98	30	125	-	-	53	223
Sea trout:								
Gray	5,422	5,525	2,710	1,974	-	-	8,132	7,499
Spotted.	1,538	3,178	2	3	-	-	1,540	3,181
White.	146	152	103	82	-	-	249	234
Sharks:								
Dogfish.	4,369	1,204	2,057	369	-	-	6,426	1,573
Other.	403	501	3,061	4,803	13	34	3,477	5,338
Snapper:								
Red.	27	185	1,668	8,476	-	-	1,695	8,661
Other.	273	1,200	2,073	8,834	-	-	2,346	10,034
Striped bass	185	450	10	35	-	-	195	485
Swordfish.	4	27	3,382	27,364	1,042	7,583	4,428	34,974
Tilefish	-	-	3,606	8,852	-	-	3,606	8,852

See footnotes at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1987 (1) - continued

	Distance caught off U.S. shores				International waters (Includes catch off foreign coasts)		Total	
	0 to 3 miles (2)		3 to 200 miles					
Fish	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars
Tuna:								
Albacore	1	1	2,175	3,932	2,148	3,405	4,324	7,338
Bigeye	4	20	1,320	8,646	239	848	1,563	9,514
Bluefin	(3)	3	1,168	13,944	797	2,516	1,965	16,463
Skipjack	-	-	1,916	3,882	102,495	85,140	104,411	89,022
Yellowfin	222	637	7,659	28,015	163,370	169,437	171,251	198,089
Unclassified	66	21	346	518	133	467	545	1,006
Total	293	682	14,584	58,937	269,182	261,813	284,059	321,432
Whiting	456	342	15,276	11,242	-	-	15,732	11,584
Other marine finfishes	66,696	40,828	71,449	34,629	147	145	138,292	75,602
Other freshwater finfishes	53,469	45,838	-	-	-	-	53,469	45,838
Total fish	1,556,445	897,349	2,607,111	897,042	274,087	275,732	4,437,643	2,070,123
Shellfish et al.								
Clams:								
Hard	5,179	49,593	-	-	-	-	5,179	49,593
Ocean quahog	569	2,420	22,226	14,156	-	-	22,795	16,576
Soft	3,387	19,761	1	9	-	-	3,388	19,770
Surf	5,406	5,001	22,147	22,992	-	-	27,553	27,993
Other	2,028	18,929	-	-	-	-	2,028	18,929
Total	16,569	95,704	44,374	37,157	-	-	60,943	132,861
Crabs:								
Blue, hard	89,713	70,763	19	13	-	-	89,732	70,776
Dungeness	10,144	29,110	3,219	9,382	-	-	13,363	38,492
King	288	2,058	12,896	96,871	-	-	13,184	98,929
Snow (tanner)	3,680	17,363	47,944	81,321	-	-	51,624	98,684
Other	2,707	4,021	4,620	10,955	23	18	7,350	14.994
Total	106,532	123,315	68,698	198,542	23	18	175,253	321,875

See footnotes at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1987 (1) - continued

	Distance caught off U.S. shores				International waters (Includes catch off foreign coasts)		Total	
	0 to 3 miles (2)		3 to 200 miles					
Shellfish et al.	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars
Lobsters:								
American	17,297	107,543	3,334	25,683	34	328	20,665	133,554
Spiny.	629	5,390	1,981	15,927	-	-	2,610	21,317
Oysters.	18,056	92,423	-	-	-	-	18,056	92,423
Scallops:								
Bay.	263	3,159	-	-	-	-	263	3,159
Calico	-	-	3,699	8,889	-	-	3,699	8,889
Sea.	636	5,941	13,896	126,322	-	-	14,532	132,263
Shrimp:								
New England. . . .	717	1,754	4,309	10,404	-	-	5,026	12,158
South Atlantic . .	7,516	35,315	2,874	11,081	-	-	10,390	46,396
Gulf	67,241	221,381	49,399	247,900	-	-	116,640	469,281
Pacific Coast. . .	3,981	6,435	28,681	43,812	-	-	32,662	50,247
Other.	-	-	(3)	2	-	-	(3)	2
Total	79,455	264,885	85,263	313,199	-	-	164,718	578,084
Squid:								
Atlantic	3,061	2,585	18,709	11,285	-	-	21,770	13,870
Pacific.	4	4	19,576	4,296	-	-	19,580	4,300
Other shellfish. . .	42,610	53,667	844	2,283	-	-	43,454	55,950
Total shellfish et al.. . .	285,112	754,616	260,374	743,583	57	346	545,543	1,498,545
GRAND TOTAL 1987	1,841,557	1,651,965	2,867,485	1,640,625	274,144	276,078	4,983,186	3,568,668
Grand Total 1986 (4)	*1,586,180*	*1,449,431*	*2,427,415*	*1,432,616*	*246,442*	*207,882*	*4,260,039*	*3,089,929*

(1) Landings are reported in round (live) weight for all items, except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell.) The National Marine Fisheries Service estimated the distance from shore for Texas landings data collected by Texas Parks and Wildlife Department.

(2) Includes landings from the Great Lakes and other inland waters.

(3) Less than 500 pounds (0.23 metric tons) or $500. One metric ton equals 2,204.6 lbs.

(4) For individual species breakout see "Fisheries of the U.S., 1986" pages 8-11.

Note:-- Data are preliminary. Data include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States, and catches by U.S.-flag vessels unloaded onto foreign vessels within the U.S. EEZ (joint ventures.) Therefore, they will not agree with "U.S. Commercial Landings" table beginning on page one. Data do not include aquaculture products, except oysters and clams.

HISTORICAL LANDINGS OF SHRIMP, BY REGIONS, 1880 - 1987

YEAR	NEW ENGLAND		MIDDLE ATLANTIC		CHESAPEAKE		SOUTH ATLANTIC	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
1880.......	-	-	-	-	-	-	821	50
1887.......	1	(1)	1	(1)	8	4	(1)	(1)
1888.......	1	(1)	1	(1)	8	4	(1)	(1)
1889.......	2	1	-	-	-	-	743	33
1890.......	-	-	1	1	8	4	744	33
1891.......	-	-	1	1	8	4	-	-
1892.......	-	-	1	1	-	-	-	-
1895.......	-	-	-	-	-	-	-	-
1897.......	-	-	3	2	1	1	627	28
1898.......	-	-	3	1	-	-	-	-
1899.......	-	-	-	-	-	-	-	-
1901.......	-	-	4	2	4	1	-	-
1902.......	7	2	-	-	-	-	3,811	87
1904.......	-	-	5	1	2	1	-	-
1905.......	2	(1)	-	-	-	-	-	-
1908.......	6	1	7	2	-	-	5,697	138
1915.......	-	-	-	-	-	-	-	-
1916.......	-	-	-	-	-	-	-	-
1917.......	-	-	-	-	-	-	-	-
1918.......	-	-	-	-	-	-	15,656	470
1919.......	3	2	-	-	-	-	-	-
1920.......	-	-	-	-	-	-	-	-
1921.......	-	-	108	29	-	-	-	-
1922.......	-	-	-	-	-	-	-	-
1923.......	-	-	-	-	-	-	23,705	822
1924.......	5	3	-	-	-	-	-	-
1925.......	-	-	-	-	1	(1)	-	-
1926.......	-	-	42	4	-	-	-	-
1927.......	-	-	-	-	-	-	29,992	1,174
1928.......	1	1	-	-	-	-	33,309	1,358
1929.......	3	2	554	32	-	-	30,829	1,449
1930.......	5	4	341	28	-	-	26,205	979
1931.......	1	1	340	49	-	-	25,494	914
1932.......	(1)	(1)	117	27	-	-	22,463	636
1933.......	41	2	86	15	(1)	(1)	-	-
1934.......	-	-	-	-	-	-	25,961	789
1935.......	-	-	194	13	-	-	-	-
1936.......	-	-	-	-	-	-	33,567	1,022
1937.......	7	(1)	107	16	2	(1)	27,436	828
1938.......	105	8	125	21	8	1	27,565	821
1939.......	52	2	50	2	-	-	27,685	857
1940.......	10	(1)	161	52	-	-	22,702	754
1941.......	-	-	-	-	-	-	-	-
1942.......	111	4	25	2	-	-	-	-
1943.......	295	14	-	-	-	-	-	-
1944.......	462	21	-	-	(1)	(1)	-	-
1945.......	582	29	-	-	-	-	43,581	3,984
1946.......	166	9	-	-	-	-	-	-
1947.......	194	11	91	45	-	-	-	-
1948.......	27	3	100	50	-	-	-	-
1949.......	10	2	90	45	(1)	(1)	-	-
1950.......	7	1	100	50	-	-	36,481	10,032
1951.......	58	10	86	48	-	-	27,771	7,382
1952.......	104	18	90	49	-	-	25,671	6,585
1953.......	38	7	86	52	-	-	32,933	9,931
1954.......	-	-	18	18	-	-	28,646	6,883
1955.......	-	-	13	13	-	-	28,539	6,939
1956.......	-	-	18	19	-	-	25,518	7,806
1957.......	-	-	26	26	2	1	28,509	9,150
1958.......	5	2	9	8	-	-	22,584	7,958
1959.......	17	5	4	4	-	-	26,006	6,571
1960.......	90	20	5	5	-	-	31,214	8,512
1961.......	68	14	6	6	-	-	19,749	6,939
1962.......	388	57	7	7	-	-	26,078	11,275
1963.......	561	67	7	7	-	-	15,529	5,246
1964.......	932	113	2	2	-	-	17,341	6,633
1965.......	2,093	245	6	6	-	-	26,191	10,160
1966.......	3,894	550	-	-	-	-	21,475	10,814
1967.......	6,991	872	-	-	-	-	20,598	9,010
1968.......	14,572	1,612	-	-	-	-	24,285	13,996
1969.......	28,272	3,478	-	-	-	-	27,306	16,186
1970.......	23,522	4,697	-	-	-	-	20,609	11,388

(CONTINUED ON NEXT PAGE)

HISTORICAL LANDINGS OF SHRIMP, BY REGIONS, 1880 - 1987 - Continued

YEAR	NEW ENGLAND		MIDDLE ATLANTIC		CHESAPEAKE		SOUTH ATLANTIC	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
1971.......	24,536	4,653	-	-	-	-	31,200	20,919
1972.......	24,460	4,587	1	(1)	-	-	25,248	18,469
1973.......	20,734	5,657	5	3	-	-	24,557	26,630
1974.......	17,515	5,577	-	-	-	-	27,091	18,338
1975.......	11,655	3,063	-	-	-	-	24,926	30,308
1976.......	2,254	764	-	-	-	-	26,108	34,905
1977.......	840	458	-	-	-	-	18,021	24,347
1978.......	7	1	-	-	-	-	20,138	30,878
1979.......	1,072	338	-	-	(1)	1	32,295	65,273
1980.......	731	477	-	-	-	-	32,996	57,399
1981.......	2,271	1,438	-	-	-	-	16,514	32,469
1982.......	3,383	2,010	-	-	-	-	25,580	59,942
1983.......	3,469	2,312	-	-	-	-	26,615	69,755
1984.......	7,114	3,475	-	-	-	-	19,179	33,996
1985.......	9,247	4,045	-	-	7	27	27,970	54,420
1986.......	10,328	6,520	-	-	-	-	23,120	59,513
1987.......	11,081	12,158	-	-	(1)	2	22,905	46,396

YEAR	GULF		PACIFIC		TOTAL	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
1880.......	(1)	(1)	-	-	821	50
1887.......	(1)	(1)	-	-	10	4
1888.......	(1)	(1)	4,907	(1)	4,917	4
1889.......	8,304	122	-	-	9,049	156
1890.......	7,452	110	-	-	8,205	148
1891.......	-	-	-	-	9	5
1892.......	-	-	5,315	(1)	5,316	1
1895.......	-	-	5,461	165	5,461	165
1897.......	6,792	118	-	-	7,423	149
1898.......	-	-	-	-	3	1
1899.......	-	-	6,535	113	6,535	113
1901.......	-	-	-	-	8	3
1902.......	12,367	199	-	-	16,185	288
1904.......	-	-	3,436	98	3,443	100
1905.......	-	-	-	-	2	(1)
1908.......	12,561	270	505	53	18,776	464
1915.......	-	-	(2) 684	25	(2) 684	25
1916.......	-	-	(3) 164	(4)	(3) 164	(4)
1917.......	-	-	(3) 114	(4)	(3) 114	(4)
1918.......	46,918	1,276	(5) 1,083	(4)	(5)63,657	1,746
1919.......	-	-	(5) 1,188	(4)	(5) 1,191	2
1920.......	-	-	(5) 1,518	(4)	(5) 1,518	(4)
1921.......	-	-	(5) 3,066	(4)	(5) 3,174	29
1922.......	-	-	3,154	(4)	3,154	(4)
1923.......	47,117	1,771	4,026	(4)	74,848	2,593
1924.......	-	-	4,892	(4)	4,897	3
1925.......	-	-	4,743	(4)	4,744	(1) (4)
1926.......	-	-	4,547	(4)	4,589	4
1927.......	68,877	2,344	4,810	(4)	103,679	3,518
1928.......	82,170	3,092	5,469	(4)	120,949	4,551
1929.......	77,721	2,986	6,216	91	115,323	4,560
1930.......	61,913	2,017	5,983	91	94,447	3,119
1931.......	70,956	1,817	4,620	67	101,411	2,848
1932.......	65,800	1,400	4,605	67	92,985	2,130
1933.......	-	-	4,127	55	4,254	72
1934.......	93,357	2,278	4,212	55	123,530	3,122
1935.......	-	-	5,927	87	6,121	100
1936.......	84,273	2,756	5,312	77	123,152	3,855
1937.......	113,839	4,181	4,045	57	145,436	5,082
1938.......	112,587	3,725	4,593	75	144,983	4,651
1939.......	120,386	3,991	3,976	(4)	152,149	4,852
1940.......	127,838	5,141	4,302	(4)	155,013	5,947
1941.......	-	-	3,755	105	3,755	105
1942.......	-	-	2,709	30	2,845	36
1943.......	-	-	1,020	28	1,315	42
1944.......	-	-	1,196	25	1,658	46
1945.......	145,443	17,305	1,772	48	191,378	21,366
1946.......	-	-	2,735	113	2,901	122
1947.......	-	-	2,967	277	3,252	333
1948.......	(4)	(4)	3,994	297	4,121	350
1949.......	126,506	29,205	4,019	247	130,625	29,499

(CONTINUED ON NEXT PAGE)

HISTORICAL LANDINGS OF SHRIMP, BY REGIONS, 1880 – 1987 – Continued

YEAR	GULF		PACIFIC		TOTAL	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
1950.......	151,153	33,112	3,954	255	191,695	43,450
1951.......	193,651	44,136	3,622	286	225,188	51,862
1952.......	198,268	48,170	4,077	281	228,210	55,103
1953.......	224,503	66,336	3,944	315	261,504	76,641
1954.......	237,153	53,652	3,700	278	269,517	60,831
1955.......	212,402	54,465	4,825	365	245,779	61,782
1956.......	193,621	62,499	5,400	570	224,557	70,894
1957.......	168,453	63,288	8,545	680	205,535	73,145
1958.......	173,354	63,871	17,891	1,091	213,843	72,930
1959.......	193,503	50,348	20,652	1,249	240,182	58,177
1960.......	205,725	57,631	12,418	764	249,452	66,932
1961.......	133,795	43,650	20,912	1,079	174,530	51,688
1962.......	141,726	60,557	22,906	1,339	191,105	73,235
1963.......	203,116	63,539	21,260	1,181	240,473	70,040
1964.......	179,032	62,695	14,497	929	211,804	70,372
1965.......	195,237	70,907	20,091	1,083	243,618	82,401
1966.......	179,230	82,973	34,438	1,956	239,037	96,293
1967.......	225,731	90,577	54,462	3,007	307,782	103,466
1968.......	204,024	95,829	56,406	3,427	299,287	114,864
1969.......	200,429	101,062	62,527	3,739	318,534	124,465
1970.......	230,474	108,186	92,859	5,483	367,464	129,754
1971.......	227,376	136,274	107,790	5,533	390,902	167,379
1972.......	228,941	164,401	108,811	7,932	387,461	195,389
1973.......	182,206	171,854	152,220	16,254	379,722	220,398
1974.......	186,208	138,041	142,759	18,542	373,573	180,498
1975.......	170,083	178,337	140,067	13,934	346,731	225,642
1976.......	210,167	275,222	167,865	20,142	406,394	331,033
1977.......	265,158	297,684	192,433	38,181	476,452	360,670
1978.......	248,327	319,590	154,403	35,017	422,875	385,486
1979.......	206,564	377,642	96,019	28,300	335,950	471,554
1980.......	208,280	302,077	97,697	42,741	339,704	402,694
1981.......	268,190	401,400	67,496	27,888	354,471	463,195
1982.......	209,926	425,748	44,738	21,193	283,627	508,893
1983.......	198,457	416,911	21,124	14,401	249,665	503,379
1984.......	254,254	439,727	20,807	9,842	301,354	487,040
1985.......	262,908	398,694	33,509	15,514	333,641	472,700
1986.......	304,051	563,045	62,686	33,666	400,185	662,744
1987.......	257,148	469,281	72,008	50,247	363,142	578,084

(1) LESS THAN 500 LB. OR $500.
(2) DATA NOT AVAILABLE FOR ALASKA.
(3) DATA NOT AVAILABLE FOR WASHINGTON AND OREGON.
(4) DATA NOT AVAILABLE.
(5) DATA NOT AVAILABLE FOR WASHINGTON.

NOTE:--DATA FOR 1978 THRU 1987 ARE PRELIMINARY.

TABLE 1. JOINT VENTURE CATCHES BY U.S.-FLAG VESSELS, BY SPECIES, 1980-87

Species	1980		1981		1982		1983	
	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars
Alewives	(1)	(1)	-	-	-	-	-	-
Atka mackerel. . . .	(1)	(1)	1,633	216	12,475	1,926	11,302	1,514
Cod.	(1)	(1)	9,277	1,943	13,786	3,044	16,749	3,474
Flounders.	(1)	(1)	21,980	3,391	26,649	3,997	36,958	5,287
Hake, Pacific (whiting).	(1)	(1)	-	-	(1)	(1)	(1)	(1)
Ocean perch.	(1)	(1)	-	-	3	1	2,114	616
Mackerel, Atlantic .	(1)	(1)	-	-	(1)	(1)	(1)	(1)
Pollock, Alaska. . .	(1)	(1)	58,950	8,448	128,886	15,954	283,104	26,083
Rockfishes	(1)	(1)	7	1	30	7	311	94
Sablefish.	(1)	(1)	180	26	124	4	363	141
Whiting.	(1)	(1)	-	-	(1)	(1)	(1)	(1)
Squid:								
Illex.	(1)	(1)	(1)	(1)	(1)	(1)	8,344	1,840
Loligo	(1)	(1)	(1)	(1)	(1)	(1)	2,332	1,646
Other fish (2) . . .	(1)	(1)	47,598	6,980	72,691	11,468	73,371	10,555
Total	62,460	8,373	139,625	21,005	254,644	36,401	434,948	51,250

Species	1984		1985		1986		1987	
	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars
Alewives	9	1	-	-	(1)	(1)	22	(3)
Atka mackerel. . . .	36,493	5,632	39,938	6,109	31,991	4,828	30,030	4,775
Cod.	38,512	8,546	36,373	7,799	66,015	14,449	59,521	15,334
Flounders.	54,372	7,605	179,663	24,833	215,878	28,847	224,250	33,272
Hake, Pacific (whiting).	(1)	(1)	(1)	(1)	81,639	8,736	211,994	23,306
Ocean perch.	2,313	689	281	56	273	72	556	173
Mackerel, Atlantic .	1,423	220	3,788	584	(1)	(1)	8,012	1,058
Pollock, Alaska. . .	444,256	41,591	614,337	59,730	904,111	95,294	1,057,315	134,302
Rockfishes	346	105	70	14	215	57	320	100
Sablefish.	871	396	94	30	434	137	123	37
Whiting.	(1)	(1)	-	-	65	9	5	(3)
Squid:								
Illex.	6,010	2,000	2,540	595	(1)	(1)	3,140	628
Loligo	760	395	1,082	599	(1)	(1)	993	745
Other fish (2) . . .	79,192	11,862	33,060	3,971	9,766	2,470	608	66
Total.	664,557	79,042	911,226	104,320	1,310,387	154,899	1,596,889	213,796

(1) Confidential data.

(2) Includes alewives, Atlantic mackerel, butterfish, Pacific and red hakes, sea herring, whiting, squid, and other miscellaneous fish unless shown separately.

(3) Less than $500.

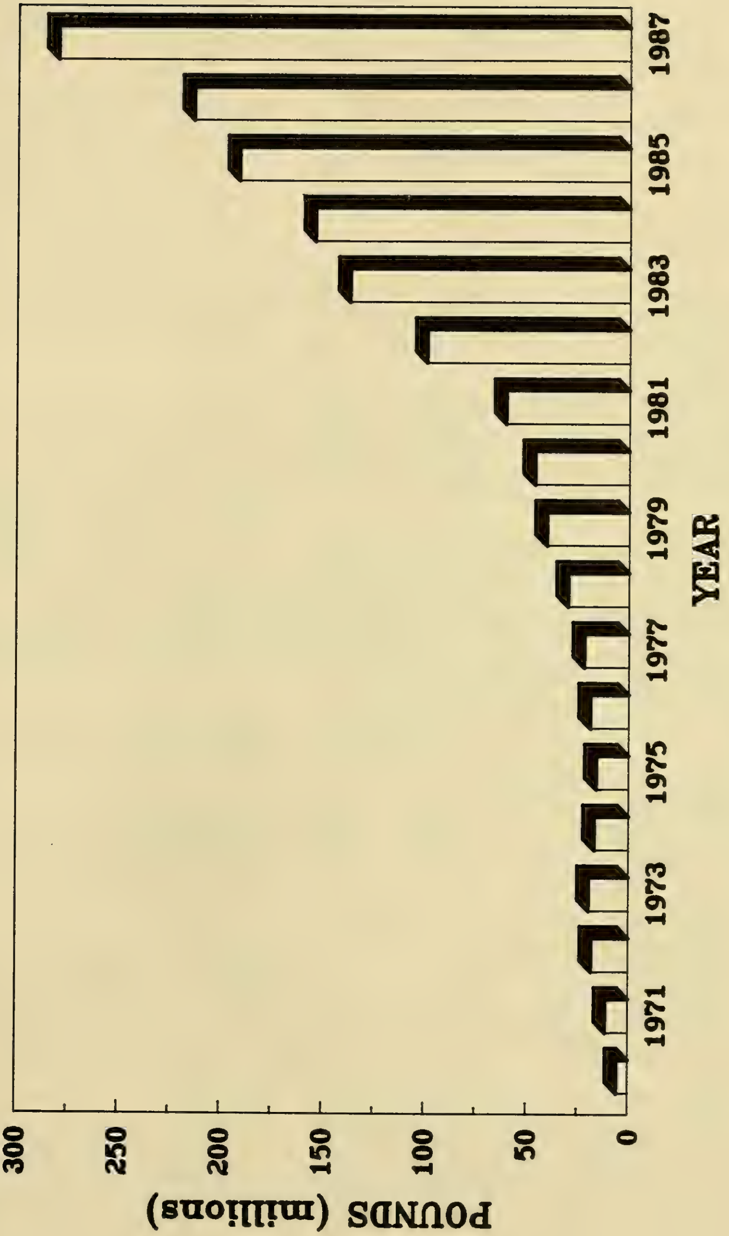
PRODUCTION OF U.S. FARM RAISED CATFISH, BY MONTHS, 1970 - 1987

YEAR	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
	(THOUSAND POUNDS - ROUND WEIGHT)												
1970	689	1,092	520	177	97	149	221	241	348	723	715	769	5,741
1971	926	1,154	1,386	897	487	556	716	918	1,008	1,106	1,097	1,006	11,257
1972	1,320	1,520	2,134	1,487	1,531	1,365	1,180	1,638	1,483	1,673	1,781	1,221	18,333
1973	2,128	2,257	2,244	1,388	1,259	1,324	1,646	1,773	1,642	1,690	1,249	1,129	19,729
1974	1,267	1,418	1,734	1,355	1,395	1,436	1,304	1,541	1,277	1,530	1,324	1,364	16,945
1975	1,664	1,729	1,504	1,011	790	1,481	1,426	1,369	1,339	1,402	1,100	1,325	16,140
1976	1,785	1,711	2,094	1,397	1,037	1,471	1,458	1,763	1,904	1,545	1,500	1,312	18,977
1977	1,344	2,278	1,901	1,749	1,810	1,901	1,965	2,192	1,986	1,766	1,661	1,573	22,126
1978	1,598	2,361	2,951	2,510	2,729	2,189	2,310	3,186	2,607	2,647	2,935	2,154	30,177
1979	3,032	3,929	4,010	3,025	3,716	3,081	3,138	3,978	3,417	3,531	3,000	2,779	40,636
1980	3,530	4,892	4,060	3,829	4,045	3,596	3,092	4,116	3,817	4,310	3,631	3,546	46,464
1981	3,836	4,844	4,490	6,057	5,385	4,356	5,379	5,176	5,711	5,154	4,757	5,495	60,640
1982	5,448	7,848	8,845	7,937	7,974	8,156	7,269	8,398	9,883	9,209	8,609	9,829	99,405
1983	8,713	11,972	13,104	12,518	11,615	12,068	10,347	11,998	11,250	11,138	11,754	10,773	137,250
1984	13,265	14,585	14,658	13,349	12,856	11,130	12,181	13,379	12,520	12,588	12,527	11,217	154,255
1985	13,429	17,166	18,290	16,474	17,432	15,897	14,311	17,130	16,638	16,861	14,625	13,363	191,616
1986	19,761	19,083	18,664	16,354	16,013	15,951	17,036	18,663	18,859	20,453	17,107	15,812	213,756
1987	20,988	22,163	27,583	26,781	21,623	19,581	21,638	24,403	26,577	27,920	20,684	20,555	280,496

Source:--U.S. Department of Agriculture, National Agricultural Statistics Services (NASS), Agricultural Statistics Board, Washington, DC 20250 -- phone 202-447-2123.

CATFISH AQUACULTURE PRODUCTION

(ROUND WEIGHT)
1970 – 1987



DATA COLLECTION. While data on commercial fisheries have been collected for many years, detailed statistical information on marine recreational fishing is also required to support a variety of fishery management and development purposes. These include the objectives of the Magnuson Fishery Conservation and Management Act. However, the lack of a continuous or systematic collection of marine recreational fishery data had prevented the accomplishment of these goals. Therefore, NMFS began a new comprehensive Marine Recreational Fishery Statistics Survey (MRFSS) in 1979. Surveys have been conducted in the following areas and years:

Atlantic and Gulf, 1979 through 1987
Pacific, mid-1979 through 1987
Western Pacific, 1979 through 1981
Caribbean, 1979, 1981

Preliminary estimates of catch and trips from the MRFSS for the Atlantic, Gulf, and Pacific coasts for 1987 are presented in the tables below. Summary graphs for 1979-1987 catch and trips are also shown. The survey is being conducted in 1988 along the Atlantic, Gulf, and Pacific coasts.

These surveys use an intercept survey of fishermen in the field and an independent telephone survey of households. Each component survey provides certain information that is combined to produce estimates of recreational catch, fishing effort and participation. Estimates are generated by subregion or State, species, mode and area of fishing. In addition, information on catch rates and fish lengths and weights is obtained.

The MRFSS is only one of several NMFS efforts to obtain data on recreational fisheries. Specialized surveys on particular fisheries or to obtain socio-economic data are also conducted by NMFS.

DATA TABLES. The MRFSS catch data show the total number of fish caught for twenty of the most frequently caught species groups in each survey area. Total number caught includes those fish brought ashore in whole form which were available for identification, weighing, and measuring as well as those not available for identification. This latter category includes those fish used for bait, discarded, filleted or released alive. Each fisheries group may contain one or more species, genera, or families.

Several tables show the distribution of total catch by subregion, fishing area and mode. The fishing areas are: ocean 3 miles or less from land, ocean more than 3 miles from land, inland (sounds, rivers, bays), and unknown. However, ocean data for the Gulf coast of Florida are reported as 10 miles or less from land and more than 10 miles from land.

The fishing modes are: shore (man-made structures and beach/bank from previous surveys), party/charter boat, and private/rental boat. However, partyboats were not sampled in the South Atlantic and Gulf subregions, so party/charter estimates include only charterboats in these areas.

The fishing trip table indicates the estimated number of trips by coastal residents (generally residing within 25 miles of the coast), non-coastal residents of the subregion bordering saltwater, and non-residents.

The 1987 survey did not include Texas or the January/February wave for Atlantic coast States north of Georgia. Pacific coast salmon fishing trips and catches were not included as a result of a cooperative arrangement with the Pacific coast states. These states had ongoing salmon data collection efforts which estimated a Pacific coast total salmon catch of approximately 1.2 million fish in 1986. The data presented below will be finalized in separate marine recreational fishery reports to be published this summer.

PRELIMINARY 1987 MRFSS DATA. The U.S. marine recreational finfish catch in 1987 (excluding Alaska, Hawaii, and Pacific coast salmon) was an estimated 384.5 million fish. These fish weighed approximately 631.7 million pounds and were taken on an estimated 75.5 million fishing trips. The estimated number of U.S. marine recreational fishermen has been relatively stable over the last few years at 17 million. Excluding catches of freshwater and industrial species (such as anchovies and menhaden), the marine recreational catch comprised approximately 20 percent of the total U.S. finfish landings used for food in 1987.

The Atlantic and Gulf coasts accounted for approximately 88 percent of the total U.S. marine recreational finfish catch by number. Eighty-seven percent of the estimated U.S. trips were made on the Atlantic and Gulf coasts.

Approximately 16 percent of the total U.S. catch by number was made in the Exclusive Economic Zone (EEZ), the principal area of NMFS management authority. However, for some species (e.g., Atlantic cod, red snapper) over 80 percent of the catch was made in the EEZ.

The private/rental boat mode accounted for 68 percent of the total U.S. marine recreational finfish catch in number. Shore mode catches were 23 percent of the total and party/charter catches (excluding South Atlantic and Gulf partyboats) were 19 percent of the total.

Atlantic and Gulf. In terms of number of fish, bluefish was the most frequently caught species on the Atlantic and Gulf coasts in 1987. Bluefish was the top-ranked species in 6 of the last 9 survey years. Other frequently caught species in 1987 were spotted seatrout, summer flounder, and Atlantic croaker. Top-ranked species in each subregion in 1987 were scup in the North Atlantic, summer flounder in the Mid-Atlantic, Atlantic croaker in the South Atlantic, and spotted seatrout in the Gulf of Mexico. The Mid-Atlantic (36 percent) and Gulf (34 percent) subregions accounted for the highest numbers of Atlantic and Gulf coasts fishes.

The inland, ocean 3 miles or less from shore, and ocean 10 miles or less from shore areas accounted for approximately 84 percent of the Atlantic and Gulf coasts catch in number. The remaining 16 percent of the catch in number was from the EEZ.

Sixty-nine percent of the Atlantic and Gulf coast catches was taken in the private/rental boat mode in 1987. However, other modes were important for particular species such as bluefish from the party/charter boat mode and kingfishes from the shore mode.

Coastal residents accounted for 74 percent of the Atlantic and Gulf trips made in 1987. Non-residents accounted for an additional 22 percent of the trips. Total trips in the South Atlantic exceeded all other subregions. This distribution of trips was similar to previous years.

Pacific. The catch in number of Pacific mackerel was the highest of any species on the Pacific coast in 1987. Top-ranked species groups in each subregion were Pacific mackerel in Southern California, rockfishes in Northern California, black rockfish in Oregon, and spiny dogfish in Washington. Southern California accounted for 67 percent of the Pacific coast in number catch.

The ocean 3 miles or less from shore area had the highest catch in number (59 percent) on the Pacific coast in 1987. The Pacific coast portion of the catch in the ocean more than 3 miles from shore (20 percent) was similar to the 16 percent for the Atlantic and Gulf coasts EEZ.

The overall catch among fishing modes was more evenly distributed on the Pacific coast than on the Atlantic and Gulf coasts. Percentage catches in number of fish were 59 percent for private/rental boats, 23 percent for shore, and 19 percent for party/charter boats.

The percentage of trips by coastal residents (90 percent) was higher on the Pacific coast than the Atlantic and Gulf coasts (74 percent). Fifty-two percent of the Pacific coast trips in 1987 were in the Southern California subregion. Considering that an additional 24 percent of the trips were made in the Northern California subregion, 76 percent of the non-salmon Pacific coast trips in 1987 were made in California.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT BY MARINE RECREATIONAL FISHERMEN BY SPECIES GROUP AND SUBREGION
ATLANTIC AND GULF COASTS, JANUARY 1987 - DECEMBER 1987

SPECIES GROUP	NORTH ATLANTIC	MID-ATLANTIC	SOUTH ATLANTIC	GULF OF MEXICO	TOTAL
	THOUSANDS				
HERRINGS	1,389	3,883	805	2,880	8,958
SALTWATER CATFISHES	*	56	3,147	10,774	13,977
BLACK SEA BASS	441	5,634	2,738	2,855	11,668
BLUEFISH	8,073	20,489	4,259	1,005	33,826
RED SNAPPER	*	*	239	688	927
SCUP	10,966	3,307	_	*	14,275
PINFISH	*	*	2,830	9,569	12,399
SHEEPSHEAD	*	105	1,764	2,044	3,913
SPOTTED SEATROUT	*	98	2,655	22,918	25,671
WEAKFISH	_	6,982	612	*	7,595
SAND SEATROUT	*	*	*	5,015	5,015
SPOT	*	12,464	4,860	180	17,503
KINGFISHES	*	153	2,788	1,011	3,952
ATLANTIC CROAKER	*	7,748	12,114	5,160	25,022
RED DRUM	*	_	1,499	5,969	7,471
MULLETS	*	42	1,231	2,277	3,550
KING MACKEREL	*	_	591	366	966
SUMMER FLOUNDER	1,152	23,414	642	*	25,208
WINTER FLOUNDER	6,596	7,788	*	*	14,384
OTHER FISHES	11,306	30,169	18,219	41,001	100,695
TOTAL	39,924	122,344	60,995	113,712	336,975

NOTE: A DASH (_) DENOTES LESS THAN THIRTY THOUSAND. HOWEVER, THE NUMBER IS INCLUDED IN ROW AND COLUMN TOTALS. AN ASTERISK (*) DENOTES NONE REPORTED. FIGURES FOR THE GULF OF MEXICO DO NOT INCLUDE THE RECREATIONAL CATCH FOR TEXAS ESTIMATED BY THE STATE. FIGURES FOR THE SOUTH ATLANTIC AND GULF OF MEXICO DO NOT INCLUDE CATCHES FOR PARTY BOATS OR CATCHES IN TEXAS. ROW AND COLUMN TOTALS MAY NOT ADD DUE TO ROUNDING.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT BY MARINE RECREATIONAL FISHERMEN BY SPECIES GROUP AND SUBREGION
PACIFIC COAST, JANUARY 1987 - DECEMBER 1987

SPECIES GROUP	SOUTHERN CALIFORNIA	NORTHERN CALIFORNIA	OREGON	WASHINGTON	TOTAL
	THOUSANDS				
PACIFIC HERRING	*	48	85	218	351
SURF SMELT	_	992	172	222	1,390
SMELTS, OTHER	44	_	_	_	53
WALLEYE POLLOCK	*	*	*	564	564
JACKSMELT	577	128	_	*	705
KELP BASS	2,316	*	*	*	2,316
BARRED SAND BASS	2,600	*	*	*	2,600
WHITE CROAKER	1,592	252	*	*	1,844
QUEENFISH	420	*	*	*	420
WALLEYE SURFPERCH	152	89	32	*	272
REDTAIL SURFPERCH	*	90	40	_	134
BARRED SURFPERCH	189	40	*	*	229
PACIFIC BONITO	3,113	_	*	*	3,113
PACIFIC MACKEREL	8,072	88	*	*	8,159
BLACK ROCKFISH	33	304	426	198	961
BLUE ROCKFISH	534	623	65	*	1,222
BOCCACIO	212	70	_	*	282
OLIVE ROCKFISH	212	_	*	*	216
ROCKFISHES, OTHER	2,442	2,397	114	660	5,614
OTHER FISHES	9,170	4,136	1,093	2,695	17,094
TOTAL	31,682	9,263	2,032	4,561	47,537

NOTE: A DASH (_) DENOTES LESS THAN THIRTY THOUSAND. HOWEVER, THE NUMBER IS INCLUDED IN ROW AND COLUMN TOTALS. AN ASTERISK (*) DENOTES NONE REPORTED. FIGURES DO NOT INCLUDE SALMON CATCHES ESTIMATED BY STATE RECREATIONAL SURVEYS. ROW AND COLUMN TOTALS MAY NOT ADD DUE TO ROUNDING.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT BY MARINE RECREATIONAL FISHERMEN BY SPECIES GROUP AND AREA OF FISHING, ATLANTIC AND GULF COASTS COMBINED, JANUARY 1987 - DECEMBER 1987

SPECIES GROUP	OCEAN 3 MI OR LESS	OCEAN MORE THAN 3 MI	OCEAN 10 MI OR LESS	OCEAN OVER 10 MI	INLAND	ALL AREAS
	THOUSANDS					
HERRINGS.................	4,979	131	1,493	_	2,352	8,957
SALTWATER CATFISHES......	4,699	933	2,694	172	5,479	13,977
BLACK SEA BASS...........	2,573	3,727	1,762	648	2,957	11,668
BLUEFISH.................	12,559	6,063	543	_	14,639	33,826
RED SNAPPER..............	101	595	79	149	_	927
SCUP.....................	6,777	3,131	*	*	4,368	14,275
PINFISH..................	2,076	153	5,062	137	4,972	12,399
SHEEPSHEAD...............	648	50	671	_	2,527	3,913
SPOTTED SEATROUT.........	6,237	1,476	6,965	514	10,478	25,671
WEAKFISH.................	1,450	1,524	*	*	4,621	7,595
SAND SEATROUT............	2,748	618	669	_	973	5,015
SPOT.....................	3,613	512	123	*	13,256	17,504
KINGFISHES...............	2,139	39	466	_	1,296	3,952
ATLANTIC CROAKER.........	4,419	1,254	324	_	19,017	25,022
RED DRUM.................	1,074	188	1,718	44	4,447	7,471
MULLETS..................	1,141	31	1,512	_	862	3,550
KING MACKEREL............	210	457	205	85	_	966
SUMMER FLOUNDER..........	11,305	1,165	*	*	12,741	25,208
WINTER FLOUNDER..........	4,524	1,062	*	*	8,798	14,384
OTHER FISHES.............	22,421	18,855	23,901	8,371	27,147	100,695
TOTAL...............	95,685	41,965	48,187	10,195	140,943	336,975

NOTE: "OCEAN 10 MI OR LESS" AND "OCEAN OVER 10 MI" REFERS ONLY TO THE FLORIDA GULF COAST WHERE STATE JURISDICTION EXTENDS TO THREE MARINE LEAGUES, APPROXIMATELY TEN NAUTICAL MILES. THE TOTAL OCEAN ESTIMATE IS ADDITIVE ACROSS THE FOUR AREAS. FIGURES DO NOT INCLUDE PARTY BOAT CATCHES IN THE SOUTH ATLANTIC AND GULF OF MEXICO OR CATCHES FOR TEXAS. A DASH (_) DENOTES LESS THAN THIRTY THOUSAND. HOWEVER, THE NUMBER IS INCLUDED IN ROW AND COLUMN TOTALS. AN ASTERISK (*) DENOTES NONE REPORTED. ROW AND COLUMN TOTALS MAY NOT ADD DUE TO ROUNDING.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT BY MARINE RECREATIONAL FISHERMEN BY SPECIES GROUP AND AREA OF FISHING, PACIFIC COAST, JANUARY 1987 - DECEMBER 1987

SPECIES GROUP	OCEAN 3 MI OR LESS	OCEAN MORE THAN 3 MI	INLAND	UNDEFINED (1)	ALL AREAS
	THOUSANDS				
PACIFIC HERRING..........	214	*	138	*	351
SURF SMELT...............	1,170	*	220	*	1,390
SMELTS, OTHER............	30	*	_	*	53
WALLEYE POLLOCK..........	_	*	564	*	564
JACKSMELT................	547	_	155	_	705
KELP BASS................	1,723	472	119	_	2,316
BARRED SAND BASS.........	1,355	1,023	223	*	2,600
WHITE CROAKER............	1,355	151	337	*	1,844
QUEENFISH................	269	_	135	*	420
WALLEYE SURFPERCH........	174	*	99	*	272
REDTAIL SURFPERCH........	103	*	30	*	134
BARRED SURFPERCH.........	213	_	_	*	229
PACIFIC BONITO...........	2,149	756	208	*	3,113
PACIFIC MACKEREL.........	5,249	2,450	458	_	8,159
BLACK ROCKFISH...........	685	168	97	_	961
BLUE ROCKFISH............	1,087	128	_	*	1,222
BOCCACIO.................	172	109	_	*	282
OLIVE ROCKFISH...........	201	_	*	_	216
ROCKFISHES, OTHER........	3,214	1,848	541	_	5,614
OTHER FISHES.............	8,201	2,347	6,386	159	17,094
TOTAL...............	28,108	9,487	9,754	189	47,537

(1) THIS CATEGORY INCLUDES "MISSING DATA" ON AREA, AND LOCAL VARIATION IN MARINE GEOGRAPHIC TERMINOLOGY WHICH SOMETIMES PREVENTED INTERVIEWERS FROM DETERMINING ACCEPTABLE ANSWERS TO QUESTIONS ON "DISTANCE FROM SHORE."

NOTE: FIGURES DO NOT INCLUDE THE CATCH OF SALMON ESTIMATED BY STATE RECREATIONAL SURVEYS. A DASH (_) DENOTES LESS THAN THIRTY THOUSAND. HOWEVER, THE NUMBER IS INCLUDED IN ROW AND COLUMN TOTALS. AN ASTERISK (*) DENOTES NONE REPORTED. ROW AND COLUMN TOTALS MAY NOT ADD DUE TO ROUNDING.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT BY MARINE RECREATIONALFISHERMEN BY SPECIES GROUP AND FISHING MODE ATLANTIC AND GULF COASTS, JANUARY 1987 - DECEMBER 1987

SPECIES GROUP	SHORE	PARTY/ CHARTER BOAT	PRIVATE/ RENTAL BOATS	ALL MODES
	THOUSANDS			
HERRINGS.................	7,697	31	1,230	8,958
SALTWATER CATFISHES......	3,564	188	10,225	13,977
BLACK SEA BASS...........	692	1,668	9,308	11,668
BLUEFISH.................	9,973	4,800	19,053	33,826
RED SNAPPER..............	_	296	621	927
SCUP.....................	1,054	796	12,426	14,275
PINFISH..................	6,194	_	6,180	12,399
SHEEPSHEAD...............	908	_	2,991	3,913
SPOTTED SEATROUT.........	1,489	831	23,351	25,671
WEAKFISH.................	400	691	6,504	7,595
SAND SEATROUT............	341	574	4,100	5,015
SPOT.....................	4,577	1,066	11,860	17,504
KINGFISHES...............	2,535	_	1,389	3,952
ATLANTIC CROAKER.........	12,018	95	12,910	25,023
RED DRUM.................	760	135	6,576	7,471
MULLETS..................	1,161	_	2,389	3,550
KING MACKEREL............	_	224	739	966
SUMMER FLOUNDER..........	1,581	2,481	21,149	25,211
WINTER FLOUNDER..........	930	360	13,094	14,384
OTHER FISHES.............	22,589	11,305	66,801	100,695
TOTAL...............	78,474	25,607	232,894	336,975

NOTE: A DASH (_) DENOTES LESS THAN THIRTY THOUSAND. HOWEVER, THE NUMBER IS INCLUDED IN ROW AND COLUMN TOTALS. AN ASTERISK (*) DENOTES NONE REPORTED. PARTY BOAT ESTIMATES FOR THE SOUTH ATLANTIC AND GULF SUBREGIONS ARE EXCLUDED FROM THE PARTY/CHARTER COLUMN. FIGURES DO NOT INCLUDE CATCHES FOR TEXAS. ROW AND COLUMN TOTALS MAY NOT ADD DUE TO ROUNDING.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT BY MARINE RECREATIONAL FISHERMEN BY SPECIES GROUP AND FISHING MODE. PACIFIC COAST, JANUARY 1987 - DECEMBER 1987

SPECIES GROUP	SHORE	PARTY/ CHARTER BOAT	PRIVATE/ RENTAL BOATS	ALL MODES
	THOUSANDS			
PACIFIC HERRING..........	263	_	88	351
SURF SMELT...............	1,384	*	_	1,390
SMELTS, OTHER............	46	*	_	53
WALLEYE POLLOCK..........	_	146	411	564
JACKSMELT................	650	_	54	705
KELP BASS................	121	574	1,621	2,316
BARRED SAND BASS.........	56	820	1,724	2,600
WHITE CROAKER............	474	258	1,111	1,844
QUEENFISH................	333	_	65	420
WALLEYE SURFPERCH........	252	*	_	272
REDTAIL SURFPERCH........	133	*	_	134
BARRED SURFPERCH.........	208	*	_	229
PACIFIC BONITO...........	340	870	1,903	3,113
PACIFIC MACKEREL.........	2,137	1,836	4,186	8,159
BLACK ROCKFISH...........	87	391	483	961
BLUE ROCKFISH............	_	303	897	1,222
BOCCACIO.................	102	103	77	282
OLIVE ROCKFISH...........	_	124	89	216
ROCKFISHES, OTHER........	382	2,121	3,111	5,614
OTHER FISHES.............	3,751	1,374	11,969	17,094
TOTAL...............	8,728	10,966	27,843	47,537

NOTE: A DASH (_) DENOTES LESS THAN THIRTY THOUSAND. HOWEVER, THE NUMBER IS INCLUDED IN ROW AND COLUMN TOTALS. AN ASTERISK (*) DENOTES NONE REPORTED. FIGURES DO NOT INCLUDE THE CATCH OF SALMON ESTIMATED BY STATE RECREATIONAL SURVEYS. ROW AND COLUMN TOTALS MAY NOT ADD DUE TO ROUNDING.

ESTIMATED NUMBER OF FISHING TRIPS BY MARINE RECREATIONAL FISHERMEN BY SUBREGION AND AREA OF RESIDENCE ATLANTIC, GULF AND PACIFIC COASTS, JANUARY 1987 - DECEMBER 1987

SUBREGION	TRIPS BY COASTAL RESIDENTS	TRIPS BY NON-COASTAL RESIDENTS	NON-RESIDENT TRIPS	ALL TRIPS
	THOUSANDS			
NORTH ATLANTIC...........	5,383	260	1,630	7,273
MID-ATLANTIC.............	14,402	473	3,982	18,856
SOUTH ATLANTIC...........	15,438	1,030	4,457	20,924
GULF OF MEXICO (1).......	13,284	565	4,637	18,486
TOTAL (2)............	48,507	2,328	14,705	65,540
SOUTHERN CALIFORNIA......	4,748	77	362	5,187
NORTHERN CALIFORNIA......	2,133	191	93	2,417
OREGON...................	860	26	92	978
WASHINGTON...............	1,253	61	78	1,392
TOTAL (3)............	8,994	355	625	9,974
GRAND TOTAL	57,501	2,683	15,330	75,514

(1) EXCLUDES TEXAS DATA.
(2) EXCLUDES JANUARY/FEBRUARY TRIPS FROM MAINE THRU SOUTH CAROLINA.
(3) EXCLUDES PACIFIC COAST SALMON FISHING TRIPS.

ESTIMATED NUMBER OF FISHING TRIPS BY MARINE RECREATIONAL FISHERMEN BY SUBREGION AND MODE OF FISHING ATLANTIC, GULF AND PACIFIC COASTS, JANUARY 1987 - DECEMBER 1987

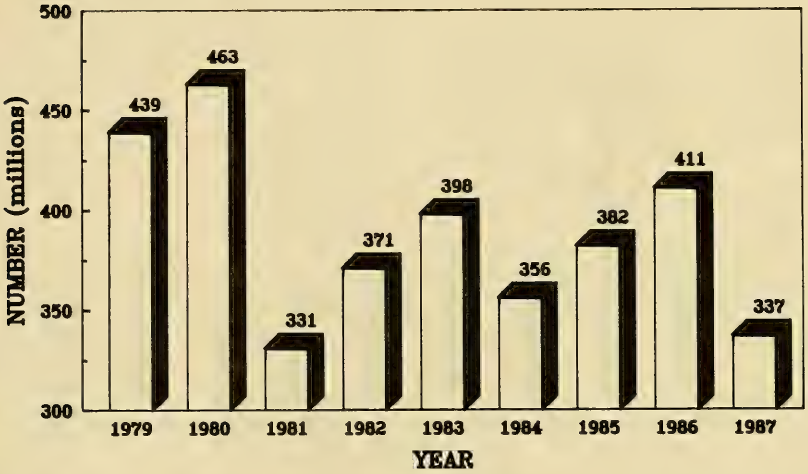
SUBREGION	SHORE	PARTY/ CHARTER BOAT	PRIVATE/ RENTAL BOAT	ALL MODES
	THOUSANDS			
NORTH ATLANTIC...........	2,732	531	4,010	7,273
MID-ATLANTIC.............	5,738	2,122	10,996	18,856
SOUTH ATLANTIC...........	11,415	512	8,998	20,924
GULF OF MEXICO (1).......	7,716	351	10,419	18,486
TOTAL (2)............	27,601	3,516	34,423	65,540
SOUTHERN CALIFORNIA......	1,832	860	2,495	5,187
NORTHERN CALIFORNIA......	1,003	213	1,200	2,417
OREGON...................	431	65	484	978
WASHINGTON...............	474	39	879	1,392
TOTAL (3)............	3,740	1,177	5,058	9,974
GRAND TOTAL	31,341	4,693	39,481	75,514

(1) EXCLUDES TEXAS DATA.
(2) EXCLUDES JANUARY/FEBRUARY TRIPS FROM MAINE THRU SOUTH CAROLINA.
(3) EXCLUDES PACIFIC COAST SALMON FISHING TRIPS.

MARINE RECREATIONAL FISHERIES CATCH

ATLANTIC AND GULF COASTS

1979 - 1987

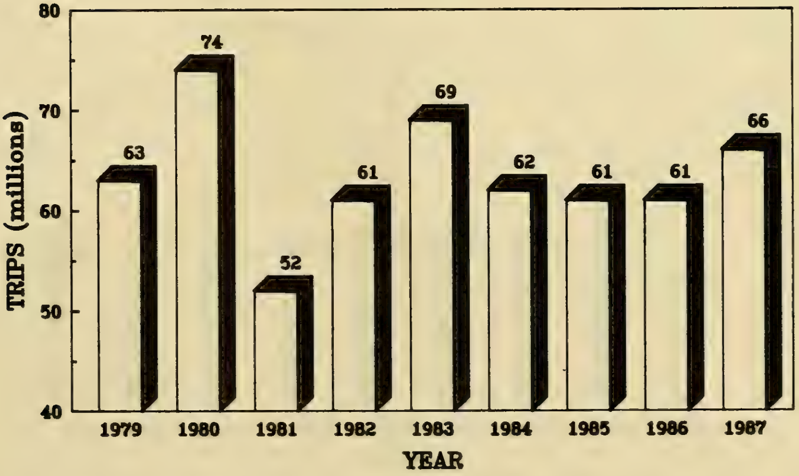


Note: 1987 data are preliminary.

MARINE RECREATIONAL FISHING TRIPS

ATLANTIC AND GULF COASTS

1979 - 1987

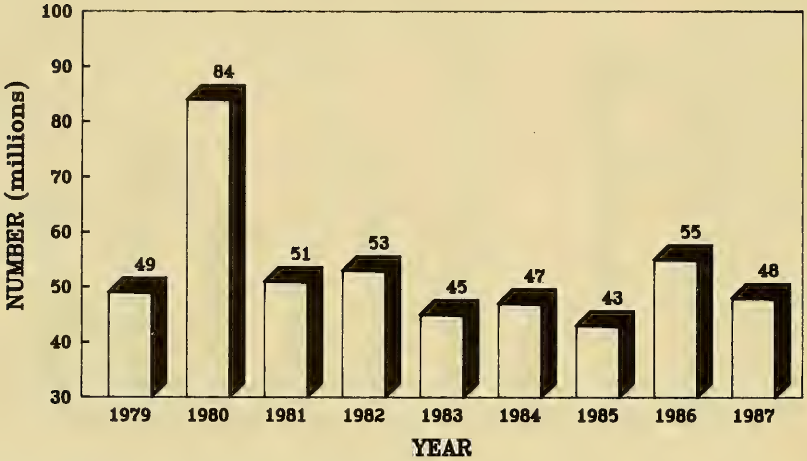


Note: 1987 data are preliminary.

MARINE RECREATIONAL FISHERIES CATCH

PACIFIC COAST

1979 – 1987

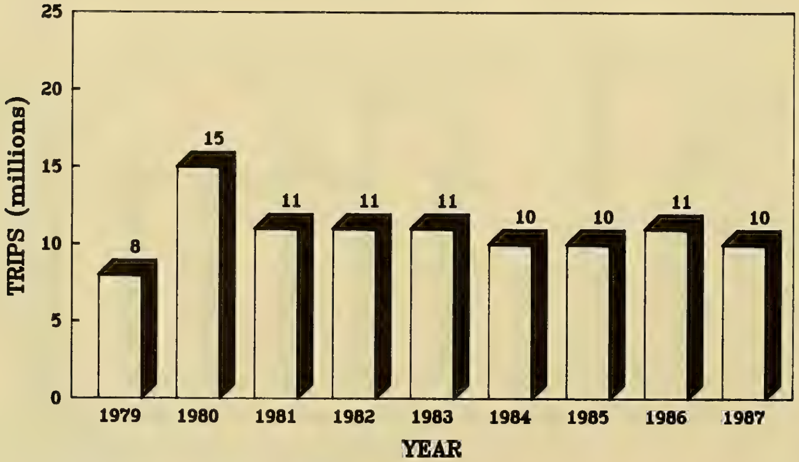


Data for 1979 are for July thru December.
Data for 1980-87 are for January thru December.
1987 data are preliminary.

MARINE RECREATIONAL FISHING TRIPS

PACIFIC COAST

1979 – 1987



Data for 1979 are for July thru December.
Data for 1980-87 are for January thru December.
1987 data are preliminary.

ALL FOREIGN COUNTRIES: CATCH IN THE U.S. EXCLUSIVE ECONOMIC ZONE (EEZ), BY CONTINENT AND COUNTRY, 1986

Continent and Country	North Atlantic (1)	Washington, Oregon, and California	Alaska			Grand total
			Gulf of Alaska	Eastern Bering Sea and Aleutian Islands	Total Alaska	
	- - - - - - - -	- - - - - - - -	Metric tons,	round weight - - -	- - - - - - - -	- - - - - - - -
Europe:						
European Economic Community:						
Italy.	4,034.4	-	-	-	-	4,034.4
Spain (2).	2,725.6	-	-	-	-	2,725.6
Other:						
German Democratic Republic.	19,025.9	-	-	-	-	19,025.9
Poland	-	70,752.8	-	6,853.0	6,853.0	77,605.8
Asia:						
China.	-	-	-	2,001.7	2,001.7	2,001.7
Japan.	(3)	-	15,850.8	369,484.5	385,335.3	385,335.3
Republic of Korea.	-	-	-	97,334.6	97,334.6	97,334.6
Total.	25,785.9	70,752.8	15,850.8	475,673.8	491,524.6	588,063.3

(1) Cape Hatteras, North Carolina, northward. (2) Joined the European Economic Community in 1986. (3) Included with Gulf of Alaska.

Note:--Excludes tunas and prohibited species. For further information see text on page iv FOREIGN CATCH IN U.S. EEZ. Catches are for calendar year only. Some fishing years overlap 2 calendar years.

ALL FOREIGN COUNTRIES: CATCH IN THE U.S. EXCLUSIVE ECONOMIC ZONE (EEZ), BY CONTINENT AND COUNTRY, 1987

Continent and Country	North Atlantic (1)	Washington, Oregon, and California	Alaska			Grand total
			Gulf of Alaska	Eastern Bering Sea and Aleutian Islands	Total Alaska	
	- - - - - - - - - - - - - - -	- Metric tons, round weight -				
Europe:						
European Economic Community:						
Italy.	33.2	-	-	-	-	33.2
Netherlands.	10,928.4	-	-	-	-	10,928.4
Other:						
German Democratic Republic .	18,553.3	-	-	-	-	18,553.3
Poland	-	48,975.4	-	-	-	48,975.4
Asia:						
China.	-	5.0	-	-	-	5.0
Japan.	-	-	-	67,436.5	67,436.5	67,436.5
Republic of Korea.	-	1,412.7	-	1,614.4	1,614.4	3,027.1
Grand total.	29,514.9	50,393.1	-	69,050.9	69,050.9	148,958.9

(1) Cape Hatteras, North Carolina, northward.

Note:--Excludes tunas and prohibited species. For further information see text on page iv FOREIGN CATCH IN U.S. EEZ. Catches are for calendar year only. Some fishing years overlap 2 calendar years.

ALL FOREIGN COUNTRIES: CATCH IN THE U.S. EXCLUSIVE ECONOMIC ZONE (EEZ), BY SPECIES AND AREA, 1986

Species	North Atlantic (1)	Washington, Oregon, and California	Alaska			Grand total
			Gulf of Alaska	Eastern Bering Sea and Aleutian Islands	Total Alaska	
	Metric tons, round weight					
Finfish						
Atka mackerel	-	-	(2)	6.4	6.4	6.4
Butterfish	125.1	-	-	-	-	125.1
Cod, Pacific	-	-	15,210.5	39,860.1	55,070.6	55,070.6
Flounders, Pacific (flatfish)	-	1.8	70.5	77,965.4	78,035.9	78,037.7
Hake:						
Atlantic:						
Red	0.9	-	-	-	-	0.9
Silver (whiting)	546.7	-	-	-	-	546.7
Pacific (whiting)	-	69,861.0	-	-	-	69,861.0
Herring, river (alewives)	14.7	-	-	-	-	14.7
Jack mackerel	-	549.3	-	-	-	549.3
Mackerel, Atlantic	19,143.5	-	-	-	-	19,143.5
Ocean perch, Pacific	-	1.4	0.3	17.9	18.2	19.6
Pollock, Alaska	-	-	113.9	352,329.4	352,443.3	352,443.3
Rockfishes	-	193.5	4.0	17.9	21.9	215.4
Sablefish	-	7.4	1.4	108.8	110.2	117.6
Other finfish	844.5	138.4	(3) 450.2	4,044.6	4,494.8	5,477.7
Total fish	20,675.4	70,752.8	15,850.8	474,350.5	490,201.3	581,629.5
Shellfish et al.						
Snails (meats)	-	-	-	493.0	493.0	493.0
Squid:						
Atlantic:						
Short-finned	248.7	-	-	-	-	248.7
Long-finned	4,861.8	-	-	-	-	4,861.8
Pacific	-	-	-	830.3	830.3	830.3
Total shellfish	5,110.5	-	-	1,323.3	1,323.3	6,433.8
Grand total	25,785.9	70,752.8	15,850.8	475,673.8	491,524.6	588,063.3

(1) Cape Hatteras, North Carolina, northward. (2) Less than 0.1 metric ton. (3) Includes a small catch from the North Atlantic.

Note:--Excludes tunas and prohibited species. For further information see text on page iv FOREIGN CATCH IN U.S. EEZ. Catches are for calendar year only. Some fishing years overlap 2 calendar years.

ALL FOREIGN COUNTRIES: CATCH IN THE U.S. EXCLUSIVE ECONOMIC ZONE (EEZ), BY SPECIES AND AREA, 1987

Species	North Atlantic (1)	Washington, Oregon, and California	Alaska			Grand total
			Gulf of Alaska	Eastern Bering Sea and Aleutian Islands	Total Alaska	
	Metric tons, round weight					
Finfish						
Atka mackerel	-	-	-	0.3	0.3	0.3
Butterfish	(2)	-	-	-	-	(2)
Cod, Pacific	-	-	-	54,373.8	54,373.8	54,373.8
Flounders, Pacific (flatfish)	-	1.6	-	7,429.8	7,429.8	7,431.4
Hake:						
Atlantic, silver (whiting)	3.1	-	-	-	-	3.1
Pacific (whiting)	-	49,655.7	-	-	-	49,655.7
Herring, river (alewives)	81.5	-	-	-	-	81.5
Jack mackerel	-	320.6	-	-	-	320.6
Mackerel, Atlantic	29,293.7	-	-	-	-	29,293.7
Ocean perch, Pacific	-	3.3	-	5.2	5.2	8.5
Pollock, Alaska	-	-	-	3,595.9	3,595.9	3,595.9
Rockfishes	-	218.8	-	7.3	7.3	226.1
Sablefish	-	29.7	-	32.8	32.8	62.5
Other finfish	136.3	163.4	-	2,629.7	2,629.7	2,929.4
Total fish	29,514.6	50,393.1	-	68,074.8	68,074.8	147,982.5
Shellfish et al.						
Snails (meats)	-	-	-	881.6	881.6	881.6
Squid:						
Atlantic, Long-finned	0.3	-	-	-	-	.3
Pacific	-	-	-	94.5	94.5	94.5
Total shellfish	.3	-	-	976.1	976.1	976.4
Grand total	29,514.9	50,393.1	-	69,050.9	69,050.9	148,958.9

(1) Cape Hatteras, North Carolina, northward. (2) Included with other finfish.

Note:--Excludes tunas and prohibited species. For further information see text on page iv FOREIGN CATCH IN U.S. EEZ. Catches are for calendar year only. Some fishing years overlap 2 calendar years.

NORTH ATLANTIC: FOREIGN CATCH, BY COUNTRY AND SPECIES, 1985-87

Country and species	1985	1986	1987
	Metric tons, round weight		
European Economic Community:			
Italy:			
Butterfish	173.1	83.5	-
Hake:			
Red	30.9	(1)	-
Silver (whiting)	938.5	332.9	3.1
Herring, river (alewives)	38.8	-	-
Mackerel, Atlantic	15,347.5	232.1	15.1
Other finfish	537.9	571.0	14.7
Squid:			
Short-finned	23.2	79.7	-
Long-finned	2,643.1	2,735.2	0.3
Total	19,733.0	4,034.4	33.2
Netherlands:			
Butterfish	(2)	-	(1)
Hake, silver (whiting)	(2)	-	(1)
Herring river (alewives)	(2)	-	55.1
Mackerel, Atlantic	(2)	-	10,789.7
Other finfish	(2)	-	83.6
Squid:			
Short-finned	(2)	-	-
Long-finned	(2)	-	(1)
Total	(2)	-	10,928.4
Total, European Economic Community	19,733.0	(3)	(3)
Spain: (3)			
Butterfish	597.5	37.9	-
Hake:			
Red	40.9	0.9	-
Silver (whiting)	274.2	200.9	-
Herring, river (alewives)	-	(1)	-
Mackerel, Atlantic	12.9	15.9	-
Other finfish	335.6	174.4	-
Squid:			
Short-finned	980.0	169.0	-
Long-finned	3,751.4	2,126.6	-
Total	5,992.5	2,725.6	-
Total, European Economic Community	-	6,760.0	10,961.6

See note at end of table.

(Continued)

NORTH ATLANTIC: FOREIGN CATCH, BY COUNTRY AND SPECIES, 1985-87 - Continued

Country and species	1985	1986	1987
	Metric tons, round weight		
Faeroe Island, Shark.	(2)	-	-
German Democratic Republic:			
Butterfish.	(1)	3.7	(1)
Hake, silver (whiting).	(1)	12.9	(1)
Herring, river (alewives)	23.5	14.7	26.4
Mackerel, Atlantic.	11,023.9	18,895.5	18,488.9
Other finfish	19.1	99.1	38.0
Squid, long-finned.	(1)	(1)	(1)
Total.	11,066.5	19,025.9	18,553.3
Japan:			
Butterfish.	31.7	(4)	-
Hake:			
Red	(1)	-	-
Silver (whiting).	41.2	(4)	-
Herring, river (alewives)	-	(4)	-
Mackerel, Atlantic.	-	(4)	-
Other finfish	208.2	(4)	-
Squid:			
Short-finned.	5.2	(4)	-
Long-finned	163.1	(4)	-
Total	449.4	(4)	-
Grand total.	37,241.4	25,785.9	29,514.9

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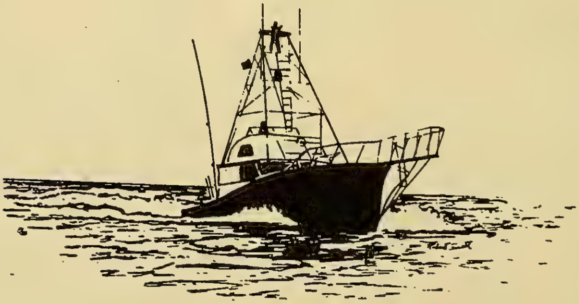
(1) Included with other finfish. (2) Included with other finfish for Italy. (3) Spain joined the EEC in 1986. (4) Included with other finfish for Gulf of Alaska.

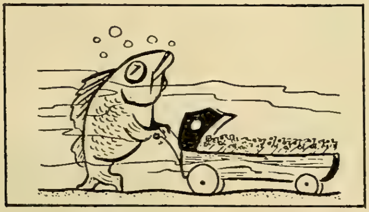
Note:--Excludes tunas and prohibited species. For further information see text on page iv FOREIGN CATCH IN U.S. EEZ. Catches are for calendar year only. Some fishing years overlap 2 calendar years.



WASHINGTON, OREGON, AND CALIFORNIA: FOREIGN CATCH, BY COUNTRY AND SPECIES, 1985-87

Country and species	1985	1986	1987
	Metric tons, round weight		
China:			
Hake, Pacific (whiting)	-	-	4.9
Jack mackerel	-	-	0.1
Total	-	-	5.0
Poland:			
Flounders (flatfish)	1.4	1.8	1.0
Hake, Pacific (whiting)	49,853.2	69,861.0	48,277.6
Jack mackerel	35.7	549.3	308.7
Ocean perch, Pacific	10.4	1.4	3.3
Rockfishes	169.4	193.5	202.4
Sablefish	23.7	7.4	29.7
Other finfishes	105.3	138.4	152.7
Total	50,199.1	70,752.8	48,975.4
Republic of Korea:			
Flounders (flatfish)	-	-	.6
Hake, Pacific (whiting)	-	-	1,373.2
Jack mackerel	-	-	11.8
Rockfishes	-	-	16.4
Other finfishes	-	-	10.7
Total	-	-	1,412.7
Grand total	50,199.1	70,752.8	50,393.1

Note:--Excludes tunas and prohibited species. Catches are for calendar year only.



U.S. EXCLUSIVE ECONOMIC ZONE

FOREIGN CATCH

GULF OF ALASKA: FOREIGN CATCH, BY COUNTRY AND SPECIES, 1985-87

Country and species	1985	1986	1987
	Metric tons, round weight		
Japan:			
Atka mackerel	0.3	(1)	-
Cod, Pacific	9,060.5	15,210.5	-
Flounders (2)	47.2	70.5	-
Ocean perch, Pacific (3)	2.5	0.3	-
Pollock, Alaska	22,937.3	113.9	-
Rockfishes:			
Shortspine thornyhead	3.6	-	-
Other	1.1	4.0	-
Sablefish (3)	30.1	1.4	-
Other finfish	94.6	(4) 450.2	-
Squid, unclassified	4.0	-	-
Total	32,181.2	15,850.8	-
Republic of Korea:			
Atka mackerel	1.5	-	-
Cod, Pacific	25.2	-	-
Flounders (2)	122.8	-	-
Ocean perch, Pacific (3)	5.2	-	-
Pollock, Alaska	8,649.9	-	-
Rockfishes:			
Shortspine thornyhead	.2	-	-
Other	.9	-	-
Sablefish (3)	8.4	-	-
Other finfish	2.3	-	-
Squid, unclassified	2.2	-	-
Total	8,818.6	-	-
Grand total	41,999.8	15,850.8	-

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(1) Less than .1 of a metric ton.
(2) May include yellowfin sole.
(3) Became a prohibited species during 1985.
(4) A small catch from the North Atlantic has been included with other finfish.

Note:--Excludes tunas and prohibited species. Catches are for calendar year only.

EASTERN BERING SEA AND ALEUTIAN ISLANDS: FOREIGN CATCH, BY COUNTRY AND SPECIES, 1985-87

Country and species	1985	1986	1987
	Metric tons, round weight		
China:			
Cod Pacific	-	182.5	-
Flounders (1)	-	363.4	-
Pollock, Alaska	-	1,443.1	-
Rockfishes	-	0.4	-
Sablefish	-	.1	-
Other finfish	-	12.2	-
Total	-	2,001.7	-
Japan:			
Atka mackerel	1.1	1.1	0.3
Cod, Pacific	51,974.5	35,616.1	54,145.6
Flounders (1)	95,237.2	66,801.3	6,407.6
Ocean perch, Pacific	58.1	14.3	5.1
Pollock, Alaska	620,112.2	262,422.7	3,283.2
Rockfishes	42.1	13.6	7.3
Sablefish	257.1	73.1	32.7
Other finfish	4,768.1	3,230.1	2,578.6
Snails (meats)	104.1	493.0	881.6
Squid, unclassified	1,469.9	819.2	94.5
Total	774,024.4	369,484.5	67,436.5
Poland:			
Atka mackerel	(2)	.1	-
Cod, Pacific	29.3	8.4	-
Flounders (1)	10.8	4.5	-
Ocean perch, Pacific	6.8	.2	-
Pollock, Alaska	32,060.9	6,831.2	-
Rockfishes	0.5	.1	-
Sablefish	2.2	(2)	-
Other finfish	5.2	1.1	-
Squid, unclassified	103.1	7.4	-
Total	32,218.8	6,853.0	-
Republic of Korea:			
Atka mackerel	.3	5.2	-
Cod, Pacific	4,885.2	4,053.1	228.2
Flounders (1)	43,472.6	10,796.2	1,022.2
Ocean perch, Pacific	8.9	3.4	.1
Pollock, Alaska	166,606.3	81,632.4	312.7
Rockfishes	1.4	3.8	-
Sablefish	52.7	35.6	.1
Other finfish	1,475.8	801.2	51.1
Squid, unclassified	14.6	3.7	-
Total	216,517.8	97,334.6	1,614.4
USSR:			
Cod, Pacific	288.4	-	-
Flounders (1)	8,825.6	-	-
Ocean perch, Pacific	.1	-	-
Pollock, Alaska	1,503.6	-	-
Rockfishes	-	-	-
Sablefish	.1	-	-
Other finfish	33.8	-	-
Squid, unclassified	.7	-	-
Total	10,652.3	-	-
Grand total	1,033,413.3	475,673.8	69,050.9

(1) May include yellowfin sole. (2) Less than 0.1 metric ton.
NOTE:--Excludes tunas and prohibited species. Catches are for calendar year only.

U.S. AND WORLD COMMERCIAL FISHERY CATCHES, 1953-86

Year	U.S. commercial catch and exvessel value			World commercial catch				
	Published by U.S. (excludes weight of mollusk shells)	Published by FAO (1)	Exvessel value	Fresh-water	Marine			Grand total
					Peruvian anchovy	Other (2)	Total	
	Million metric tons Live weight		Billion dollars	Million metric tons Live weight				
1953	2.0	2.7	.4	3.0	-	22.9	22.9	25.9
1954	2.2	2.8	.4	3.2	-	24.4	24.4	27.6
1955	2.2	2.8	.3	3.4	-	25.5	25.5	28.9
1956	2.4	3.0	.4	3.5	0.1	27.2	27.3	30.8
1957	2.2	2.8	.4	3.9	.3	27.5	27.8	31.7
1958	2.2	2.7	.4	4.5	.8	28.0	28.8	33.3
1959	2.3	2.9	.4	5.1	2.0	29.8	31.8	36.9
1960	2.2	2.8	.4	5.6	3.5	31.1	34.6	40.2
1961	2.4	2.9	.4	5.7	5.3	32.6	37.9	43.6
1962	2.4	3.0	.4	5.8	7.1	31.9	39.0	44.8
1963	2.2	2.8	.4	5.9	7.2	33.5	40.7	46.6
1964	2.1	2.6	.4	6.2	9.8	35.9	45.7	51.9
1965	2.2	2.7	.4	7.0	7.7	38.5	46.2	53.2
1966	1.9	2.5	.5	7.3	9.6	40.4	50.0	57.3
1967	1.8	2.4	.4	7.2	10.5	42.7	53.2	60.4
1968	1.9	2.5	.5	7.4	11.3	45.2	56.5	63.9
1969	1.9	2.5	.5	7.6	9.7	45.4	55.1	62.7
1970	2.2	2.8	.6	8.4	13.1	46.6	59.7	65.6
1971	2.3	2.9	.7	9.0	11.2	48.3	59.5	66.1
1972	2.2	2.8	.7	5.7	4.8	53.7	58.5	62.0
1973	2.2	2.8	.9	5.7	1.7	55.3	57.0	62.7
1974	2.3	2.8	.9	5.8	4.0	56.7	60.7	66.5
1975	2.2	2.8	1.0	6.2	3.3	56.9	60.2	66.4
1976	2.4	3.0	1.3	5.9	4.3	59.6	63.9	69.8
1977	2.4	3.0	1.5	6.1	.8	62.0	62.8	68.9
1978	2.7	3.4	1.9	5.8	1.2	63.4	64.6	70.4
1979	2.8	3.5	2.2	5.9	1.4	63.8	65.2	71.1
1980	2.9	3.6	2.2	6.2	.7	65.1	65.8	72.0
1981	2.7	3.8	2.4	6.6	1.2	67.0	68.2	74.8
1982	2.9	4.0	2.4	8.5	1.8	66.9	68.7	77.2
1983	2.9	4.3	2.4	9.2	0.1	68.7	68.8	78.0
1984	2.9	4.8	2.3	9.8	0.1	74.3	74.4	84.2
1985	2.8	4.8	2.3	10.5	1.0	75.0	76.0	86.5
1986	2.7	4.9	2.8	11.1	1.0	80.1	81.1	92.2

(1) Includes U.S.-flag vessel landings at foreign ports, transfer of catches onto foreign vessels within the U.S. EEZ (joint ventures), and the weight of mollusk shells. (2) Includes diadromous, salmon and other anadromous fishes, and catadromous fishes such as eels.

Note:--There are 2,204.6 pounds in a metric ton. Prior to 1970, the world commercial catch of whales and seals is excluded. For the years 1970-1986 data for marine mammals and aquatic plants are excluded. There is a revision in the total world commercial catch back to 1970 as published in FAO Yearbook of Fishery Statistics, Vol. 48 and 50. However, prior to 1974, data on freshwater and marine catches were not revised. Therefore, for the years 1970 to 1973, data will not add to the grand total.

Source:--Fishery Statistics of the United States; Fisheries of the United States; Food and Agriculture Organization of the United Nations (FAO) - Yearbook of Fishery Statistics, Rome; for various issues.

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY COUNTRIES, 1982-86 (DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)

Country	1982(1)	1983(1)	1984(1)	1985(1)	1986
			-Thousand metric tons- Live weight		
Japan.	10,827	11,312	12,062	11,424	11,973
USSR	9,991	9,817	10,593	10,523	11,260
China.	4,927	5,213	5,927	6,779	8,000
Peru	3,513	1,569	3,317	4,136	5,610
Chile.	3,673	3,978	4,499	4,804	5,572
United States (2).	3,990	4,258	4,814	4,770	4,945
Republic of Korea.	2,281	2,400	2,477	2,650	3,103
India.	2,367	2,507	2,862	2,824	2,925
Indonesia.	1,982	2,205	2,252	2,339	2,521
Thailand	2,120	2,260	2,135	2,225	2,119
Philippines.	1,836	2,014	1,956	1,878	1,929
Norway	2,501	2,836	2,466	2,119	1,898
Denmark.	1,927	1,863	1,846	1,753	1,871
Korea (3).	1,550	1,600	1,650	1,700	1,700
Iceland.	789	839	1,535	1,680	1,657
Canada	1,403	1,348	1,282	1,418	1,467
Spain.	1,402	1,328	1,351	1,350	1,313
Mexico	1,321	1,065	1,105	1,227	1,305
Ecuador.	667	324	846	947	1,019
France	756	788	771	850	857
United Kingdom	903	840	836	888	848
Brazil	733	755	836	839	848
Vietnam.	640	710	765	780	800
Bangladesh	686	724	754	774	794
Poland	608	735	719	683	645
Burma.	584	588	610	644	644
Republic of South Africa .	600	582	554	601	629
Malaysia	683	741	665	632	617
Morocco.	364	454	469	478	599
Turkey	512	559	570	582	584
Italy.	557	582	576	594	556
Netherlands.	505	506	432	504	455
Argentina.	475	416	315	406	420
Pakistan	337	343	372	408	415
Portugal	255	248	285	299	390
Faeroe Islands	249	330	347	373	354
New Zealand	232	282	294	305	340
All others	8,470	9,060	9,070	9,285	9,172
Total	77,216	77,979	84,215	86,471	92,154

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(1) Revised.

(2) Includes the weight of clam, oyster, scallop, and other mollusk shells. This weight is not included in U.S. landings statistics shown elsewhere.

(3) Data estimated by FAO.

Note:--Statistics for mariculture, aquaculture, and other kinds of fish farming, etc., except for the United States are included in country totals. Statistics on quantities caught by recreational fishermen are excluded.

Source:--Food and Agriculture Organization of the United Nations (FAO) - Yearbook of Fishery Statistics, 1986; Vol. 62, Rome.

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY CONTINENTS, 1982-86
(DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS.)

Continent	1982(1)	1983(1)	1984(1)	1985(1)	1986
	- - - - - - - - -	- Thousand metric tons -	Live weight	- - - - - - - - -	
Asia.	33,315	35,395	37,472	38,119	40,492
South America	9,524	7,531	10,346	11,671	14,043
Europe.	12,324	12,792	13,071	12,854	12,602
USSR.	9,991	9,817	10,593	10,523	11,260
North and Central America . .	7,305	7,313	7,807	8,244	8,428
Africa.	4,253	4,557	4,256	4,277	4,493
Oceania	502	574	671	785	835
Total (2).	77,216	77,979	84,215	86,471	92,154

(1) Revised.
(2) May not add to total because of rounding.

Source:--Food and Agriculture Organization of the United Nations (FAO) - Yearbook of Fishery Statistics, 1986; Vol. 62, Rome.

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY MAJOR FISHING AREAS, 1982-86
(DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS.)

Area	1982(1)	1983(1)	1984(1)	1985(1)	1986
	- - - - - - - - -	- Thousand metric tons -	Live weight	- - - - - - - - -	
Marine areas:					
Pacific Ocean and adjacent areas.	39,335	38,896	44,546	46,493	51,495
Atlantic Ocean and adjacent areas.	25,489	25,788	25,507	25,070	25,041
Indian Ocean and adjacent areas.	3,906	4,058	4,367	4,420	4,503
Total.	68,730	68,742	74,420	75,983	81,039
Inland waters:					
Asia.	5,312	5,884	6,388	7,099	7,669
Africa.	1,456	1,522	1,521	1,474	1,497
USSR.	837	856	881	906	927
Europe.	399	397	407	426	438
South America	314	328	337	326	344
North and Central America .	162	246	256	254	232
Oceania	4	4	5	5	5
Total.	8,484	9,237	9,795	10,490	11,112
Grand total (2).	77,216	77,979	84,215	86,471	92,154

(1) Revised.
(2) May not add to total because of rounding.

Source:--Food and Agriculture Organization of the United Nations (FAO) - Yearbook of Fishery Statistics, 1986; Vol. 62, Rome.

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY SPECIES GROUPS, 1982-86
(DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS.)

Species group	1982(1)	1983(1)	1984(1)	1985(1)	1986
	-Thousand metric tons- Live weight				
Herring, sardines, anchovies, etc.	17,866	17,502	19,618	21,062	23,943
Cods, hakes, haddocks, etc.	10,973	11,222	12,256	12,471	13,493
Miscellaneous marine and diadromous fishes	8,573	8,683	8,940	9,143	9,777
Freshwater fishes	6,820	7,541	7,924	8,637	9,273
Jacks, mullets, sauries, etc.	7,804	7,963	8,553	8,049	7,188
Mollusks	5,699	5,860	6,261	6,292	6,360
Redfish, basses, congers, etc.	5,424	5,010	5,481	5,247	5,966
Mackerels, snoeks, cutlassfishes, etc.	3,850	3,672	4,266	3,825	4,033
Crustaceans	3,406	3,227	3,256	3,500	3,860
Tunas, bonitos, billfishes, etc.	2,802	2,961	3,128	3,170	3,418
Flounders, halibuts, soles, etc.	1,135	1,124	1,191	1,340	1,308
Salmons, trouts, smelts, etc.	838	956	914	1,121	1,011
Shads, milkfishes, etc.	591	563	742	773	775
Sharks, rays, chimaeras, etc.	630	584	605	617	628
River eels	85	85	96	96	90
Sturgeons, paddlefishes, etc.	29	28	27	26	25
Miscellaneous	691	998	959	1,102	1,002
Total (2)	77,216	77,979	84,215	86,471	92,154

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(1) Revised.
(2) May not add to total because of rounding.

Source:--Food and Agriculture Organization of the United Nations (FAO) - Yearbook of Fishery Statistics, 1986; Vol. 62, Rome.

DISPOSITION OF WORLD COMMERCIAL CATCH, 1981-85
(DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS.)

Item	1981(1)	1982(1)	1983(1)	1984(1)	1985
	-Percent of total-				
Marketed fresh	20.9	19.0	19.0	18.1	17.9
Frozen	22.8	24.0	24.3	24.2	23.7
Canned	14.4	13.6	13.9	13.5	13.4
Cured	15.8	15.5	15.8	14.8	15.2
Reduced to meal and oil (2)	25.1	26.9	26.0	28.3	28.6
Miscellaneous purposes	1.0	1.0	1.0	1.1	1.2
Total	100.0	100.0	100.0	100.0	100.0

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(1) Revised.
(2) Only whole fish destined for the manufacture of oils and meals is included. Raw material for reduction derived from fish primarily destined for marketing fresh, frozen, canned, cured, and miscellaneous purposes is excluded; such waste quantities are included under the other disposition channels.

Source:--Food and Agriculture Organization of the United Nations (FAO) - Yearbook of Fishery Statistics, 1985; Vol. 61, Rome.

WORLD IMPORTS AND EXPORTS OF SEVEN FISHERY COMMODITY GROUPS, BY LEADING COUNTRIES, 1982-85

Country	1982 (1)	1983 (1)	1984 (1)	1985
	Thousand U.S. dollars			
IMPORTS				
Japan	3,973,739	4,015,122	4,207,710	4,744,277
United States	3,174,633	3,621,380	3,702,249	4,051,794
France	1,035,955	1,049,661	975,559	1,039,848
Italy	752,813	735,374	742,206	984,990
United Kingdom	885,331	911,156	877,703	943,881
Fed. Republic of Germany	823,189	831,420	800,060	819,555
Hong Kong	469,351	439,507	439,962	471,609
Spain	526,340	397,520	389,954	412,790
Denmark	298,059	309,213	326,669	370,442
Canada	281,406	335,268	373,305	355,915
Netherlands	309,790	272,857	288,821	308,449
Belgium	326,926	318,806	298,878	303,695
Sweden	267,591	261,981	257,737	244,800
Australia	220,517	199,310	232,266	216,245
Singapore	183,907	200,335	224,413	204,376
Portugal	182,372	141,184	139,928	199,595
Switzerland	193,191	194,266	188,897	193,346
Thailand	28,206	42,821	85,581	138,312
USSR	70,637	133,389	137,784	135,207
Other countries	2,628,435	2,490,441	2,277,007	2,201,604
Total	16,632,388	16,901,011	16,966,689	18,340,730
EXPORTS				
Canada	1,299,651	1,277,287	1,271,842	1,356,462
United States	1,032,248	996,651	923,890	1,058,052
Denmark	901,473	928,365	898,867	952,712
Norway	888,348	977,937	902,866	922,460
Japan	800,557	787,633	881,965	819,840
Republic of Korea	758,464	739,850	781,784	796,878
Thailand	482,012	544,929	632,940	675,063
Iceland	538,734	527,167	509,245	617,355
Netherlands	503,622	511,401	500,543	543,666
Chile	386,340	419,028	419,373	438,630
USSR	218,042	324,037	303,598	383,908
Mexico	396,178	436,751	437,369	370,998
China (2)	314,409	302,755	321,956	366,920
France	292,733	315,622	293,586	359,000
Spain	289,277	287,111	306,782	354,284
United Kingdom	289,492	311,880	302,171	342,029
India	354,943	353,691	333,465	300,110
Fed. Republic of Germany	315,878	305,817	298,385	286,989
Australia	313,918	322,490	349,685	280,054
Other countries	4,947,251	5,027,853	5,179,926	5,716,088
Total	15,323,570	15,698,255	15,850,238	16,941,498

(1) Revised. (2) Estimated by FAO.

Note:--Data on imports and exports cover the international trade of 176 countries or areas. The total value of exports is consistently less than the total value of imports, probably because charges for insurance, freight, and similar expenses were included in the import value but not in the export value. The seven fishery commodity groups covered by this table are: 1. Fish, fresh, chilled or frozen; 2. Fish, dried, salted, or smoked; 3. Crustaceans and mollusks, fresh, frozen, dried, salted, etc.; 4. Fish products and preparations, whether or not in airtight containers; 5. Crustacean and mollusk products and preparations, whether or not in airtight containers; 6. Oils and fats, crude or refined, of aquatic animal origin; and 7. Meals, solubles, and similar animal foodstuffs of aquatic animal origin.

Source:--Food and Agriculture Organization of the United Nations (FAO) - Yearbook of Fishery Statistics, 1985; Vol. 61, Rome.

VALUE OF PROCESSED FISHERY PRODUCTS, 1986 AND 1987
(Processed from domestic catch and imported products)

Item	1986 (1)		1987 (2)	
	Thousand dollars	Percent of total	Thousand dollars	Percent of total
Edible:				
Fresh and frozen	3,481,476	66.1	3,664,685	66.6
Canned	1,394,532	26.5	1,433,682	26.1
Cured	110,437	2.1	115,000	2.1
Total edible	4,986,445	94.7	5,213,367	94.8
Industrial:				
Bait and animal food (canned)	100,377	1.9	76,923	1.4
Fish meal, oil, and solubles	138,765	2.7	173,010	3.1
Other	37,845	.7	36,700	.7
Total industrial	276,987	5.3	286,633	5.2
Grand total	5,263,432	100.0	5,500,000	100.0

(1) Revised.
(2) Preliminary.

Note:--Includes value of sealskins. Value is based on selling price at the plant. Processed Fishery Products Annual Summary, 1987, Current Fishery Statistics No. 8703 will provide additional information.

FISH STICKS, FISH PORTIONS, AND BREADED SHRIMP

U.S. PRODUCTION OF FISH STICKS, FISH PORTIONS, AND BREADED SHRIMP, 1978-87

Year	Fish sticks		Fish portions		Breaded shrimp	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1978	94,674	86,712	389,430	415,892	110,888	258,467
1979	96,050	99,790	*396,089	429,164	98,993	277,460
1980	88,429	88,762	344,249	388,430	83,182	254,283
1981	88,972	96,754	328,407	388,722	85,177	282,026
1982	91,178	105,516	304,104	385,894	94,391	337,604
1983	86,928	115,556	335,270	410,858	100,106	*386,222
1984	92,441	109,677	333,212	413,789	94,522	369,415
1985	96,239	111,265	330,362	367,734	95,341	354,808
1986	87,289	94,282	341,628	393,955	107,834	358,442
1987	98,877	*142,832	316,186	*429,287	99,509	369,029

(1) *Record. Records--1973 fish sticks production: 127,156,000 lb; 1973 breaded shrimp production: 111,922,000 lb.

Note:--Processed Fishery Products, Annual Summary, 1987, Current Fishery Statistics No. 8703 will provide additional information.

PROCESSED FISHERY PRODUCTS

FISH FILLETS AND STEAKS

PRODUCTION OF FRESH AND FROZEN FILLETS AND STEAKS, BY SPECIES, 1986 AND 1987

Species	1986		1987	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Fillets:				
Anglerfish.	3,783	7,879	3,454	7,976
Carp.	2,146	1,207	1,669	1,010
Cod	76,332	141,340	60,287	151,731
Cusk.	1,404	2,080	1,094	2,067
Flounders	63,924	168,950	56,203	165,289
Groundfish mixed. . . .	1,072	2,405	1,832	4,461
Groupers.	1,845	8,402	1,531	8,342
Haddock	8,023	24,923	8,910	32,034
Hake, Atlantic.	1,865	2,833	1,984	4,104
Halibut	386	1,501	19	109
Lingcod	1,174	1,833	1,050	1,617
Ocean perch:				
Atlantic.	2,794	6,403	2,551	5,879
Pacific	1,852	2,648	1,424	2,303
Ocean pout.	(1)	(1)	963	1,154
Pollock:				
Atlantic.	16,238	20,481	18,680	30,384
Alaska.	23,620	24,943	65,110	69,008
Rockfishes.	17,115	24,378	15,845	23,808
Sablefish	3,637	4,192	2,413	4,092
Salmon.	6,134	16,521	3,674	11,450
Sea trout	501	645	533	979
Shark	4,513	2,818	3,193	3,143
Snapper:				
Red	735	3,992	367	2,133
Unclassified.	304	1,592	386	2,334
Spanish mackerel. . . .	1,017	1,270	837	1,255
Turbot.	514	530	506	442
Whitefish	349	749	147	247
Wolffish.	194	290	206	377
Yellow perch.	896	3,775	639	2,803
Yellow pike	207	783	198	1,088
Unclassified.	23,209	47,664	15,345	35,355
Total	265,783	527,027	271,050	576,974
Steaks:				
Cod.	352	650	179	447
Halibut.	7,121	18,205	2,780	8,028
King mackerel.	(1)	(1)	40	178
Salmon	5,579	16,014	1,458	4,288
Shark.	(1)	(1)	77	158
Swordfish.	258	1,198	223	2,100
Unclassified	375	970	1,116	2,634
Total.	13,685	37,037	5,873	17,833
Grand total. . . .	279,468	564,064	276,923	594,807

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(1) Included with unclassified. Note:--The following amounts of frozen fish blocks were produced from the fillets reported above: 3,919,000 lb valued at $4,537,000 in 1986, and 2,850,00 lb valued at $3,392,000 in 1987. Final data for 1987 will be published in Processed Fishery Products, Annual Summary, 1987, Current Fishery Statistics No. 8703.

CANNED FISHERY PRODUCTS

PRODUCTION OF CANNED FISHERY PRODUCTS, BY SPECIES, 1986 AND 1987

Species	Pounds per case	1986			1987		
		Standard cases	Thousand pounds	Thousand dollars	Standard cases	Thousand pounds	Thousand dollars
For human consumption:							
Fish:							
Gefiltefish.	48	487,620	23,406	19,045	491,696	23,601	20,623
Herring.	48	140,635	6,750	11,000	156,654	7,519	12,632
Mackerel	45	375,848	16,913	6,596	(1)	(1)	(1)
Roe and caviar	48	16,393	787	3,505	10,499	504	2,736
Salmon:							
Natural	48	2,953,256	141,756	265,088	2,335,010	112,080	220,628
Specialties	48	5,988	287	1,277	3,319	159	686
Sardines, Maine. . . .	23.4	666,701	15,601	27,736	560,510	13,116	22,420
Tuna:							
Solid (2).	19.5	7,612,889	148,451	300,211	7,421,969	144,728	312,077
Chunk.	19.5	24,985,052	487,209	580,231	26,102,420	508,997	705,360
Flakes and grated. .	18	65,070	1,171	1,076	14,334	258	222
Total tuna.	--	32,663,011	636,831	881,518	33,538,723	653,983	1,017,659
Specialties.	48	259,480	12,455	14,378	14	1	4
Other.	48	485,991	23,328	10,477	455,732	21,875	15,422
Total fish.	--	38,054,923	878,114	1,240,620	37,552,157	832,838	1,312,810
Shellfish:							
Clam and clam products: (3)							
Whole and minced .	15	1,432,133	21,482	50,330	1,302,976	19,545	34,695
Chowder and juice.	30	2,732,531	81,976	56,092	2,960,569	88,817	46,195
Specialties. . . .	48	267,193	12,825	11,194	289,851	13,913	6,721
Crabs:							
Natural.	19.5	30,324	591	2,392	9,117	178	925
Specialties.	48	10,206	490	276	3,811	183	154
Lobster meat and specialties.	48	18,775	901	1,270	17,840	856	1,030
Oyster, specialties .	48	70,117	3,366	3,790	68,407	3,284	3,786
Shrimp:							
Natural (4).	6.75	680,918	4,596	23,187	654,531	4,418	22,700
Specialties.	48	19,319	927	952	19,136	919	988
Other.	48	118,750	5,700	4,429	51,973	2,495	3,678
Total shellfish . .	--	5,380,266	132,854	153,912	5,378,211	134,608	120,872
Total for human consumption . . .	--	43,435,189	1,010,968	1,394,532	42,930,368	967,446	1,433,682
For bait and animal food:							
Animal food.	48	6,683,692	320,817	99,569	4,244,695	203,745	76,906
Salmon eggs.	48	2,823	136	808	31	2	17
Total for bait and animal food.	48	6,686,515	320,953	100,377	4,244,726	203,747	76,923
Grand total. . . .	--	50,121,704	1,331,921	1,494,909	47,175,094	1,171,193	1,510,605

(1) Included with other fish.

(2) Standard cases changed from 21 lb to 19.5 lb.

(3) "Cut out" or "drained" weight of can contents are given for whole or minced clams, and net contents for other clam products.

(4) Drained weight.

Note:--Final figures will be published in Processed Fishery Products, Annual Summary, 1987 , Current Fishery Statistics No. 8703.

PROCESSED FISHERY PRODUCTS

CANNED FISHERY PRODUCTS

PRODUCTION OF CANNED TUNA, 1985-87

Item	Pounds per case	1985		1986		1987	
		Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars
Albacore:							
Solid (1)	19.5	5,974	240,308	7,268	291,102	6,291	278,686
Chunk	19.5	762	29,001	786	29,253	881	34,873
Flakes and grated	18	36	653	16	440	2	52
Total	--	6,772	269,962	8,070	320,795	7,174	313,611
Lightmeat:							
Solid (1)	19.5	407	11,903	345	9,109	1,131	33,391
Chunk	19.5	20,772	538,904	24,199	550,978	25,222	670,487
Flakes and grated	18	(2)	(2)	49	636	12	170
Total	--	21,179	550,807	24,593	560,723	26,365	704,048
Grand total	--	27,951	820,769	32,663	881,518	33,539	1,017,659

(1) Standard cases changed from 21 lb to 19.5 lb beginning in 1985. (2) Included with albacore.

PRODUCTION OF CANNED SHRIMP, BY AREA, 1985-87

Area	Pounds per case	1985		1986(1)		1987	
		Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars
Gulf States	6.75	534	17,210	618	21,429	552	19,338
Pacific States	6.75	59	1,749	63	1,758	103	3,362
Total	6.75	593	18,959	681	23,187	655	22,700

(1) Revised.

PRODUCTION OF CANNED SALMON, 1985-87

Item	Pounds per case	1985		1986(1)		1987	
		Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars
Chinook or king	48	3	275	2	264	2	258
Chum or keta	48	161	10,397	159	10,613	161	9,098
Pink	48	2,681	158,713	2,341	175,502	1,444	93,514
Red or sockeye	48	449	56,486	394	71,918	704	114,862
Silver or coho	48	17	1,763	57	6,791	24	2,896
Total	48	3,311	227,634	2,953	265,088	2,335	220,628

(1) Revised.

CANNED FISHERY PRODUCTS

PRODUCTION OF CANNED FISHERY PRODUCTS, 1978-87

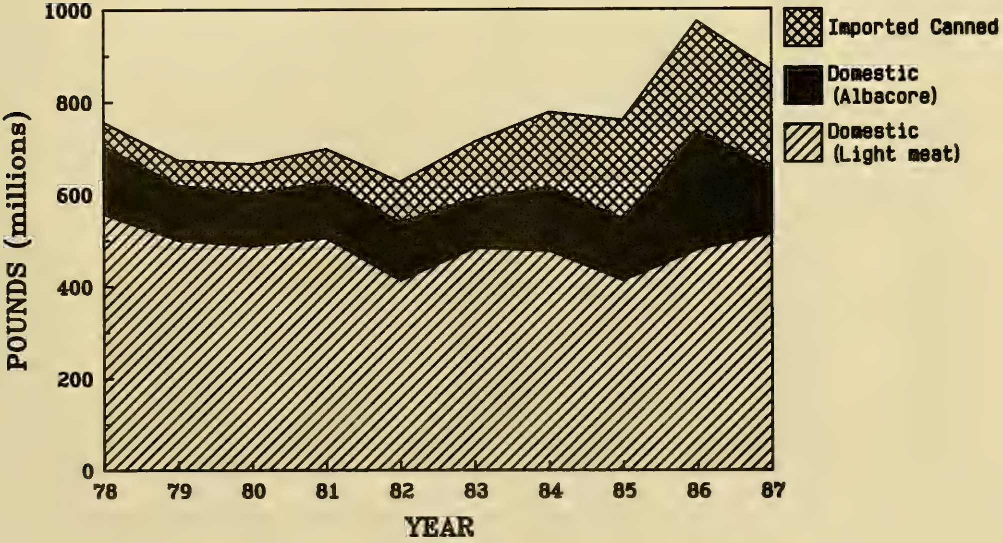
Year	For human consumption		For animal food and bait		Total	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1978. . . .	1,058,095	1,719,165	539,234	164,959	1,597,329	1,884,124
1979. . . .	959,316	1,593,015	479,764	150,316	1,439,080	1,743,331
1980. . . .	1,009,280	1,781,948	506,817	145,708	1,516,097	1,927,656
1981. . . .	*1,067,415	*1,819,409	408,783	134,562	1,476,198	*1,953,971
1982. . . .	876,157	1,325,435	407,219	132,048	1,283,376	1,457,483
1983. . . .	987,329	1,393,604	403,466	140,874	1,390,795	1,534,478
1984. . . .	1,041,845	1,435,532	369,123	141,931	1,410,968	1,577,463
1985. . . .	913,078	1,269,311	248,068	91,003	1,161,146	1,360,314
1986 (1). .	1,010,968	1,394,532	320,953	100,377	1,331,921	1,494,909
1987. . . .	967,446	1,433,682	203,747	76,923	1,171,193	1,510,605

(1) Revised. *Record. Records--1973 animal food and bait: 696,357,000 lb; 1976 value $197,955,000; 1973 total: 1,647,357,000 lb.

U.S. SUPPLY OF CANNED TUNA

(CANNED WEIGHT)

1978 - 1987



PROCESSED FISHERY PRODUCTS

INDUSTRIAL PRODUCTS

PRODUCTION OF FISH MEAL, OIL, AND SOLUBLES, 1986 AND 1987

Product	1986		1987	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Dried scrap and meal:				
Fish:				
Menhaden (1)	592,504	73,092	668,884	105,346
Tuna and mackerel . . .	74,240	7,726	84,322	12,892
Unclassified	12,384	1,607	15,834	2,021
Total	679,128	82,425	769,040	120,259
Shellfish	23,066	1,051	18,192	952
Grand total	702,194	83,476	787,232	121,211
Solubles	195,264	11,558	237,529	16,280
Body oil:				
Menhaden (1)	332,017	43,279	294,964	35,086
Unclassified	4,691	452	3,334	433
Total	336,708	43,731	298,298	35,519

(1) May include small quantities made from other species.

Note:--To convert pounds of oil to gallons divide by 7.75. The above data include production in American Samoa and Puerto Rico. Final data will be published in Processed Fishery Products, Annual Summary, 1987, Current Fisheries Statistics 8703.

PRODUCTION OF INDUSTRIAL PRODUCTS, 1978-87

Year	Quantity			Value		
	Fish meal	Fish solubles	Marine animal oil	Fish meal, solubles, and oil	Other industrial products	Grand Total
	Thousand pounds			Thousand dollars		
1978. .	725,820	325,086	296,287	204,211	46,714	250,925
1979. .	748,586	269,856	267,949	200,690	58,768	259,458
1980. .	723,844	267,364	312,511	206,081	*63,525	*269,606
1981. .	637,018	257,242	184,302	166,738	43,497	210,235
1982. .	746,854	305,002	347,513	192,138	41,499	233,637
1983. .	763,536	317,006	*399,334	*212,606	39,785	252,391
1984. .	751,528	252,076	372,804	189,796	44,258	234,054
1985. .	721,682	323,028	285,077	144,724	37,775	182,499
1986. .	702,194	195,264	336,708	138,765	36,625	175,390
1987. .	*787,232	237,529	298,298	173,010	36,042	209,052

*Record. Record--1959 fish solubles production: 330,718,000 lb.

Note:--Does not include the value of imported items that may be further processed, or the value of sealskins.

U.S. COLD STORAGE HOLDINGS

FROZEN FISHERY PRODUCTS

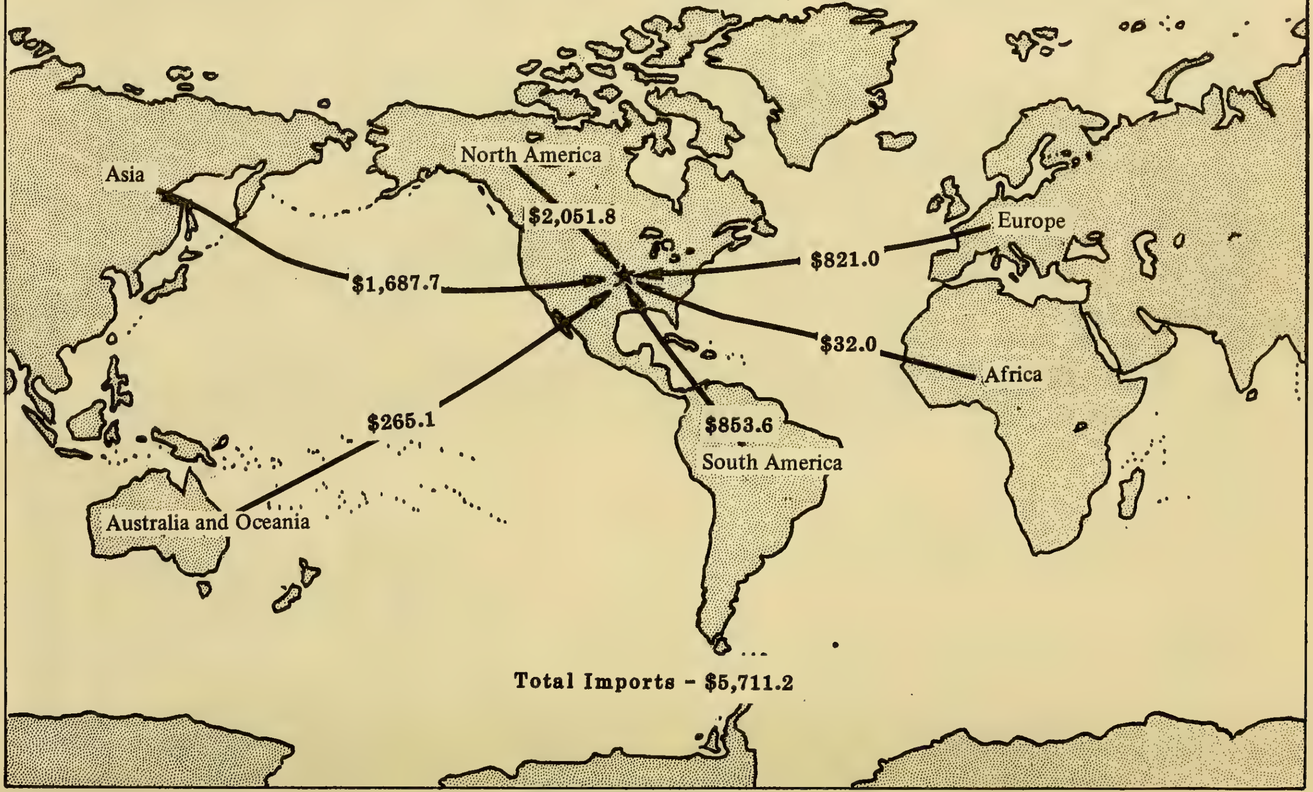
U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1987

Item	January 1	March 31	June 30	September 30	December 31
			Thousand pounds		
Blocks:					
Cod	13,491	13,754	12,472	26,559	24,038
Flounder	2,989	2,093	1,533	2,422	3,404
Greenland turbot	427	125	560	885	995
Haddock	2,620	2,585	1,969	3,899	6,111
Ocean perch	805	716	1,030	1,318	1,916
Pollock (Alaska and other)	7,658	8,579	12,064	20,497	17,544
Whiting	2,505	1,211	3,407	7,076	6,708
Minced (grated) all species	12,622	10,496	8,952	9,505	7,517
Unclassified	1,927	2,946	2,793	5,386	3,330
Total blocks	45,044	42,505	44,780	77,547	71,563
Fillets and steaks:					
Cod	10,267	14,357	23,307	24,300	27,230
Flounder	9,539	4,772	5,222	8,142	8,835
Greenland turbot	1,562	449	1,152	3,607	4,417
Haddock	3,604	3,954	4,992	4,110	4,150
Halibut	1,454	1,451	1,230	2,050	1,989
Ocean perch	9,260	5,501	6,908	8,201	10,910
Pollock	5,146	5,724	5,976	12,271	20,902
Whiting	1,980	1,461	2,432	4,227	4,031
Unclassified	11,798	6,492	9,995	16,373	20,729
Total fillets and steaks	54,610	44,161	61,214	83,281	103,193
Fish sticks and portions (cooked uncooked, all species)	30,237	25,293	29,889	24,966	31,533
Round, dressed, etc:					
Catfish	4,555	4,381	4,423	3,781	5,500
Halibut	15,210	6,704	26,377	25,647	17,923
Rainbow trout	244	509	325	1,293	1,911
Salmon	42,197	15,575	5,882	39,804	27,082
Whiting	510	2,544	2,386	747	957
Unclassified fish	23,897	32,731	26,995	28,088	24,131
Surimi & analog products	11,747	8,409	7,602	10,916	11,971
Crabs:					
King	6,132	4,355	3,829	3,906	4,005
Snow	10,812	7,203	11,713	9,664	6,067
Unclassified	4,282	1,668	1,828	2,999	3,920
Lobsters (spiny and other)	5,582	4,434	4,437	5,693	6,224
Shrimp:					
Raw, headless	32,411	20,016	20,218	25,892	30,019
Breaded	6,048	6,068	5,878	6,860	6,130
Peeled	11,002	9,104	10,806	14,876	14,655
Unclassified	10,554	8,986	7,002	14,827	16,533
Total shrimp	60,015	44,174	43,904	62,455	67,337
Other shellfish	29,113	29,570	33,400	32,486	33,030
Bait and animal food	7,655	10,894	10,376	6,709	6,174
Total fish and shellfish	351,842	285,110	319,360	419,982	422,521

Note:--Holdings of frozen fishery products include domestic and imported frozen fish and shellfish.

Source:--Frozen Fishery Products, Annual Summary, 1987, Current Fishery Statistics No. 8701 will provide additional information.

U.S. IMPORTS OF EDIBLE FISHERY PRODUCTS, 1987
(Million dollars)



Total Imports - $5,711.2

IMPORTS

EDIBLE AND NONEDIBLE FISHERY PRODUCTS IMPORTS, 1978-87

Year	Edible		Nonedible	Total
	Thousand pounds	- - - - - - - Thousand dollars - - - - - - - -		
1978.	2,410,673	2,256,314	829,637	3,085,951
1979.	2,358,920	2,671,860	1,136,931	3,808,791
1980.	2,144,928	2,686,721	961,731	3,648,452
1981.	2,272,474	3,034,206	1,171,805	4,206,011
1982.	2,225,048	3,202,408	1,321,170	4,523,578
1983.	2,386,771	3,626,704	1,502,668	5,129,372
1984.	2,454,287	3,742,333	2,141,060	5,883,393
1985.	2,754,018	4,064,334	2,614,252	6,678,586
1986.	2,978,905	4,813,488	2,812,805	7,626,293
1987.	*3,201,132	*5,711,233	*3,106,464	*8,817,697

*Record. Source:--U.S. Department of Commerce, Bureau of the Census.

FISHERY PRODUCTS IMPORTS: VALUE, DUTIES COLLECTED, AND AD VALOREM EQUIVALENT, 1978-87

Year	Value		Duties collected		Average ad valorem equivalent	
	Fishery imports	All imports	Fishery imports	All imports	Fishery imports	All imports
	- - - - - - - - - Thousand dollars - - - - - - - - -				Percent	
1978. . . .	3,085,951	172,952,200	88,930	7,161,500	2.9	4.1
1979. . . .	3,808,791	205,922,662	116,617	7,202,174	3.1	3.5
1980. . . .	3,648,452	239,943,468	87,288	7,535,421	2.4	3.1
1981. . . .	4,206,011	260,981,800	102,064	8,893,200	2.4	3.4
1982. . . .	4,523,578	243,951,900	111,952	8,687,452	2.5	3.6
1983. . . .	5,129,372	256,679,524	116,503	9,430,004	2.3	3.7
1984. . . .	5,883,393	322,989,519	145,689	12,042,152	2.5	3.7
1985. . . .	6,678,586	343,553,150	191,421	13,066,970	2.9	3.8
1986. . . .	7,626,293	368,656,594	187,791	13,312,112	2.5	3.6
1987. . . .	8,817,697	402,066,002	178,961	13,922,567	2.0	3.5

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

IMPORTS

FISHERY PRODUCTS IMPORTS, BY PRINCIPAL ITEMS, 1986 AND 1987

Item	1986		1987	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Edible fishery products:				
Fresh and frozen:				
Whole or eviscerated				
Cod, cusk, haddock and flounder	103,080	58,534	105,158	65,198
Halibut	11,257	25,162	9,295	23,138
Salmon	40,549	100,669	41,902	113,008
Tuna:				
Albacore	209,827	154,448	201,988	171,988
Other (1)	353,970	144,399	370,517	158,771
Other	183,741	154,713	214,628	183,022
Fillets and steaks:				
Flounder	65,452	112,096	73,003	148,734
Groundfish	287,099	410,718	315,418	570,065
Other	185,981	303,977	232,564	396,324
Blocks and slabs	363,897	379,887	403,577	539,358
Shrimp	384,349	1,404,931	461,173	1,676,844
Crabmeat	14,509	71,742	12,571	67,427
Lobster:				
American (includes fresh-cooked meat)	37,358	148,575	38,974	178,069
Spiny	41,961	316,340	41,949	397,854
Scallops (meats)	47,916	192,558	39,934	162,273
Analog products with shellfish	34,312	58,487	30,539	51,197
Other fish and shellfish	92,716	171,269	98,996	169,855
Canned:				
Herring, not in oil	5,707	9,390	5,617	8,726
Sardines:				
In oil	22,949	28,520	27,352	35,106
Not in oil	30,315	21,049	37,670	25,470
Tuna:				
In oil	301	707	329	869
Not in oil	236,320	227,919	211,356	206,051
Balls, cakes, and puddings:				
Analog products without shellfish	5,384	8,037	4,737	6,786
Other	12,919	18,997	8,797	13,130
Abalone	2,579	15,460	2,790	19,867
Clams	13,885	9,864	13,974	15,288
Crabmeat	8,778	23,975	7,967	20,626
Lobsters:				
American	352	2,971	637	4,184
Spiny	37	194	136	748
Oysters	32,050	32,311	32,668	36,144
Shrimp	15,757	29,406	17,132	33,380
Other fish and shellfish	51,502	71,649	57,579	89,499
Cured:				
Pickled or salted:				
Cod, haddock, hake, et al	36,915	49,477	31,893	60,542
Herring	21,787	9,269	22,213	9,594
Other	9,354	21,187	9,991	22,792
Other fish and shellfish	14,040	24,601	16,108	29,306
Total edible fishery products	2,978,905	4,813,488	3,201,132	5,711,233
Nonedible fishery products:				
Meal and scrap	370,548	47,247	393,730	52,508
Fish oils	22,859	9,258	30,509	18,930
Other	-	2,756,300	-	3,035,026
Total nonedible fishery products	-	2,812,805	-	3,106,464
Grand total	-	7,626,293	-	8,817,697

(1) Includes loins and discs.

Note:--Data include imports into the United States and Puerto Rico and include landings of tuna by foreign vessels at American Samoa. Statistics on imports are the weight of individual products as exported, i.e., fillets, steaks, whole, headed, etc.

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

IMPORTS

EDIBLE AND NONEDIBLE FSHERY PRODUCTS IMPORTS, 1987

Continent and country	Edible		Nonedible	Total
	Thousand pounds	- - - - - - - - - - Thousand dollars	- - - - - - - - -	
North America:				
Canada	749,654	1,240,779	97,471	1,338,250
Mexico	159,458	475,920	44,481	520,401
Panama	59,162	115,536	8,121	123,657
Honduras	12,548	64,176	34	64,210
Dominican Republic	3,733	3,638	39,666	43,304
Other	46,695	151,743	35,005	186,748
Total	1,031,250	2,051,792	224,778	2,276,570
South America:				
Ecuador	147,293	415,110	1,626	416,736
Brazil	43,366	129,679	14,312	143,991
Chile	43,340	71,592	34,143	105,735
Argentina	80,391	64,897	10,087	74,984
Peru	27,009	34,370	30,507	64,877
Other	110,695	137,996	16,046	154,042
Total	452,094	853,644	106,721	960,365
Europe:				
European Economic Community:				
Italy	1,855	2,769	1,013,302	1,016,071
France	54,939	24,828	178,274	203,102
Denmark	89,111	159,945	23,896	183,841
United Kingdom	16,085	44,123	86,418	130,541
Spain	39,546	43,211	46,193	89,404
Other	35,392	77,197	112,770	189,967
Total	236,928	352,073	1,460,853	1,812,926
Other:				
Iceland	124,578	234,120	2,282	236,402
Norway	83,747	196,633	8,956	205,589
Switzerland	4,025	2,280	142,954	145,234
Poland	28,736	26,310	38	26,348
Yugoslavia	4,564	2,793	14,231	17,024
Other	2,138	6,777	20,261	27,038
Total	247,788	468,913	188,722	657,635
Asia:				
Japan	150,453	277,776	223,659	501,435
Thailand	213,849	244,549	215,348	459,897
Taiwan	207,848	351,882	93,154	445,036
Hong Kong	24,513	27,186	318,719	345,905
Republic of Korea	175,413	247,722	34,788	282,510
Other	337,686	538,547	219,835	758,382
Total	1,109,762	1,687,662	1,105,503	2,793,165
Australia and Oceania:				
New Zealand	41,538	140,424	1,549	141,973
Australia	12,494	117,645	6,199	123,844
French Pacific Islands	229	485	5,698	6,183
British Pacific Islands	5,770	2,406	30	2,436
Other Pacific Islands	1,426	1,824	149	1,973
Other	3,911	2,352	55	2,407
Total	65,368	265,136	13,680	278,816
Africa:				
Ghana	38,435	13,385	18	13,403
Morocco	1,571	3,088	3,063	6,151
Nigeria	1,835	5,125	285	5,410
Malagasy Republic	5,957	2,458	-	2,458
Republic of South Africa	2,549	1,817	353	2,170
Other	7,595	6,140	2,488	8,628
Total	57,942	32,013	6,207	38,220
Grand total	3,201,132	5,711,233	3,106,464	8,817,697

Note:--Statistics on imports are the weights of individual products as exported, i.e., fillets, steaks, whole, headed, etc. Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

IMPORTS

REGULAR AND MINCED FISH BLOCKS AND SLABS IMPORTS, BY SPECIES AND TYPE, 1986 AND 1987

Species and type	1986		1987	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Regular blocks and slabs:				
Cod	172,675	215,947	162,910	275,031
Flatfish:				
Turbot	1,779	1,805	2,177	3,026
Other	6,438	7,385	9,142	13,698
Haddock	24,491	31,353	27,245	43,783
Ocean Perch, Atlantic	1,872	1,957	2,898	4,213
Pollock	69,725	44,266	89,216	82,165
Whiting	16,080	10,094	32,745	28,283
Other	15,619	23,159	37,356	61,887
Total	308,679	335,966	363,689	512,086
Minced blocks and slabs: (1)	55,218	43,921	39,888	27,272
Grand total	363,897	379,887	403,577	539,358

(1) Most of the shipments were from Canada, Denmark and the Republic of Korea.
Source:--U.S. Department of Commerce, Bureau of the Census.

REGULAR AND MINCED FISH BLOCKS AND SLABS IMPORTS, BY COUNTRY OF ORIGIN, 1986 AND 1987

Country	1986		1987	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Canada	124,557	137,897	130,301	188,931
Denmark	47,585	57,126	61,513	97,748
Republic of Korea	49,899	37,139	72,525	76,594
Norway	21,930	25,688	27,302	45,213
Iceland	42,450	50,664	26,902	39,500
Poland	18,758	11,045	28,494	26,100
Japan	23,805	27,476	9,757	13,732
Argentina	8,183	4,045	16,811	13,710
Other	26,730	28,807	29,972	37,830
Total	363,897	379,887	403,577	539,358

Source:--U.S. Department of Commerce, Bureau of the Census.

GROUNDFISH FILLET AND STEAK IMPORTS, BY SPECIES, 1986 AND 1987 (1)

Species	1986		1987	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Cod	179,912	266,967	192,791	373,547
Haddock (2)	58,152	78,786	74,654	122,840
Ocean Perch, Atlantic	49,035	64,965	47,973	73,678
Total	287,099	410,718	315,418	570,065

(1) Does not include data on fish blocks and slabs.
(2) Includes some quantities of cusk, hake, and pollock fillets.
Note:--Import and Exports of Fishery Products Annual Summary, 1987, Current Fishery Statistics No. 8702 will provide additional information.
Source:--U.S. Department of Commnerce, Bureau of the Census.

IMPORTS

CANNED TUNA NOT IN OIL, QUOTA AND IMPORTS, 1956-87

Year	Quota	Imports	
	(1)	Under quota (2)	Over quota (3)
	Thousand pounds		
1956	28,757	27,783	-
1957	44,529	42,524	-
1958	44,694	44,694	752
1959	52,373	52,373	2,931
1960	53,448	50,322	-
1961	57,115	56,210	-
1962	59,059	54,379	-
1963	63,131	56,414	-
1964	60,912	52,931	-
1965	66,059	49,204	-
1966	65,662	57,987	-
1967	69,472	62,275	-
1968	66,985	64,907	-
1969	71,703	71,333	-
1970	70,146	70,146	902
1971	77,296	55,638	-
1972	78,532	54,474	-
1973	109,809	36,973	-
1974	112,176	52,172	-
1975	120,740	48,847	-
1976	98,125	56,409	-
1977	111,246	33,913	-
1978	101,407	50,031	-
1979	125,813	82,202	-
1980	109,074	109,074	5,064
1981	104,355	76,683	-
1982	109,742	92,759	-
1983	91,904	91,904	28,304
1984	95,587	95,587	68,328
1985	97,496	97,496	116,854
1986	81,092	81,092	153,057
1987	91,539	91,539	123,364

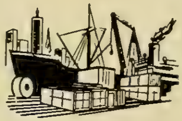
(1) Imports have been subject to tariff quotas since April 14, 1956, and are based on 20 percent of the previous year's domestic pack, excluding the pack in American Samoa.

(2) Dutiable in 1956 to 1967 at 12.5 percent ad valorem; 1968, 11 percent; 1969, 10 percent; 1970, 8.5 percent; 1971, 7 percent; and 1972 to 1987, 6 percent.

(3) Dutiable in 1958 to 1959 at 25 percent ad valorem; 1970, 17 percent, and 1972 to 1987, 12.5 percent.

Note:--Data in this table will not agree with tuna import data released by the U.S. Department of Commerce, Bureau of the Census. Any tuna entered for consumption or withdrawn from a warehouse for consumption during the calandar year, except for receipts from insular possessions of the U.S., is subject to this quota.

Source:--U.S. Department of the Treasury, U.S. Customs Service.



IMPORTS

SHRIMP IMPORTS BY COUNTRY OF ORIGIN, 1986 AND 1987

Country	1986		1987	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
North America:				
Mexico	74,413	331,436	86,082	400,831
Panama	21,793	77,769	16,614	69,673
Honduras	5,531	24,530	7,928	27,977
El Salvador	7,615	19,960	7,230	21,960
Canada	3,540	11,157	6,943	15,298
Costa Rica	6,930	19,408	4,114	13,827
Guatemala	2,868	9,962	3,415	13,305
Trinidad and Tobago	179	632	643	1,871
Bahamas	19	96	179	842
Belize	88	374	167	599
Other	134	588	250	1,090
Total	123,110	495,912	133,565	567,273
South America:				
Ecuador	62,021	277,828	101,260	378,515
Brazil	19,932	66,208	16,610	50,880
Peru	3,731	15,902	5,891	21,387
Colombia	4,355	18,148	4,321	19,738
Venezuela	9,027	38,918	6,043	18,165
Guyana	4,984	21,670	4,694	14,967
French Guiana	3,402	17,001	2,305	8,951
Chile	783	2,690	947	4,225
Suriname	429	1,668	589	2,725
Argentina	668	2,086	281	963
Other	-	-	7	19
Total	109,332	462,119	142,948	520,535
Europe:				
European Economic Community:				
United Kingdom	3,691	11,623	2,575	8,857
Denmark	479	1,674	669	2,868
Spain	454	1,784	407	1,090
France	161	485	175	935
Netherlands	149	518	130	435
Other	218	587	125	360
Total	5,152	16,671	4,081	14,545
Other:				
Norway	6,794	24,707	4,521	21,357
Iceland	1,579	5,429	596	2,604
Switzerland	222	709	67	311
Sweden	19	132	2	10
Cyprus	-	-	1	7
Other	670	714	-	-
Total	9,284	31,691	5,187	24,289
Asia:				
Taiwan	34,584	114,141	37,051	159,617
China	20,661	62,534	42,417	118,916
Thailand	24,115	59,632	24,125	64,496
India	24,442	46,792	28,374	56,980
Pakistan	14,309	29,510	17,621	35,523
Bangladesh	6,064	19,509	9,346	32,436
Philippines	4,614	20,172	5,638	26,376
Singapore	5,755	15,920	7,000	20,054
Malaysia	4,082	9,449	4,400	11,926
Indonesia	2,291	8,206	3,677	11,894
Other	9,688	30,030	9,417	30,257
Total	150,605	415,895	189,066	568,475
Australia and Oceania	1,874	9,664	1,300	8,678
Africa	749	2,385	2,158	6,429
Grand total	400,106	1,434,337	478,305	1,710,224

Note:--Statistics on imports are the weights of the individual products as exported, i.e., raw headless, peeled, etc. Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

IMPORTS

SHRIMP IMPORTS, BY TYPE OF PRODUCT, 1986 AND 1987

Type of product	1986		1987	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Shell-on (heads off).	262,044	1,080,127	310,073	1,224,234
Peeled:				
Canned.	15,757	29,406	17,132	33,380
Not breaded:				
Raw	91,843	221,263	116,708	313,521
Other	30,229	102,709	33,181	136,137
Breaded	233	832	1,211	2,952
Total.	400,106	1,434,337	478,305	1,710,224

Source:--U.S. Department of Commerce, Bureau of the Census.

CANNED TUNA, BY COUNTRY OF ORIGIN, 1986 AND 1987

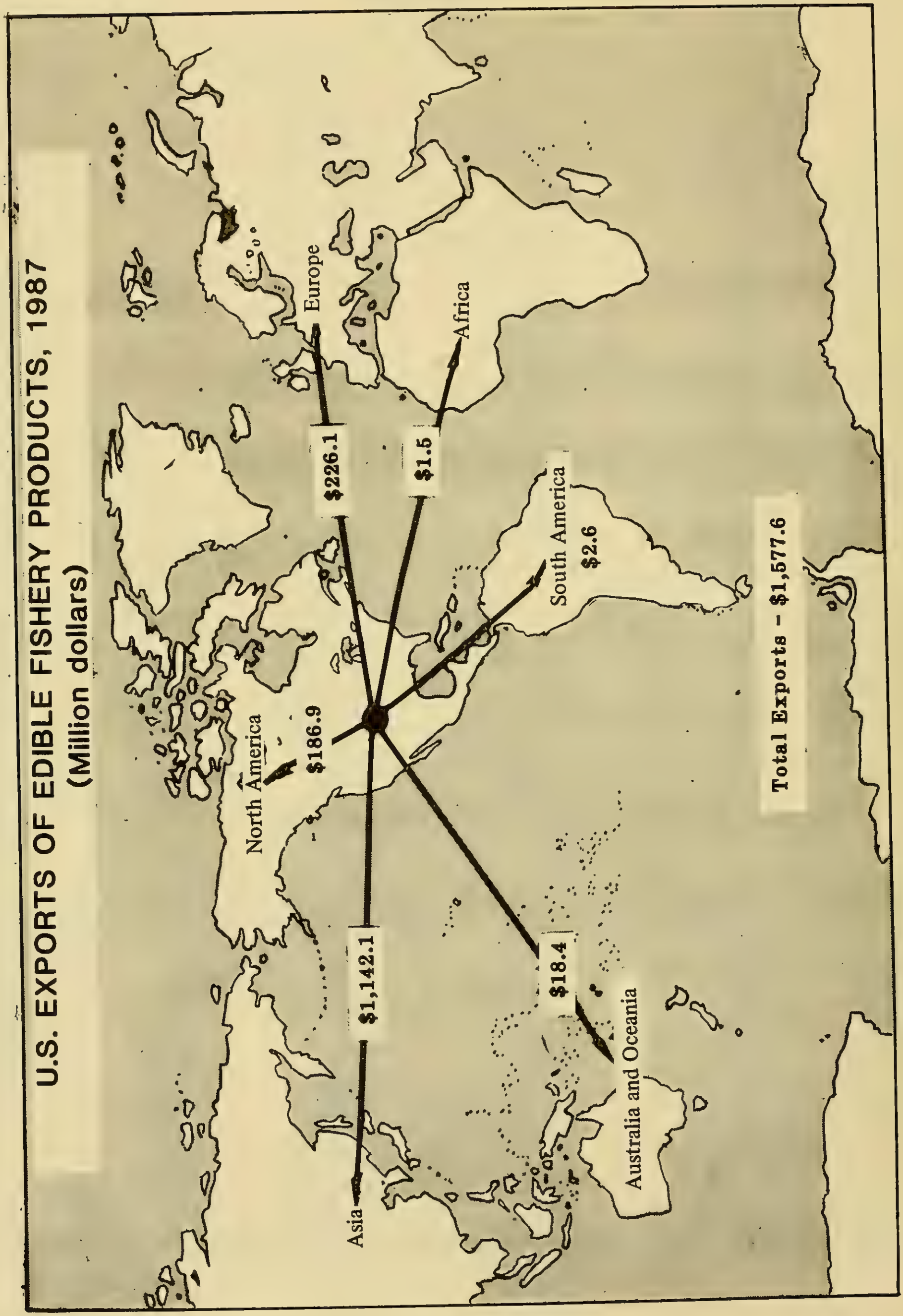
Country	1986		1987	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Thailand.	152,297	139,561	146,928	135,368
Taiwan.	28,579	34,483	25,924	34,809
Philippines	27,982	23,124	20,858	16,577
Japan	10,558	14,755	4,688	7,375
Ecuador	2,886	2,603	5,112	4,481
Venezuela	7,328	6,389	2,914	2,467
Malaysia.	2,401	3,160	1,573	1,985
Other	4,590	4,551	3,688	3,858
Total.	236,621	228,626	211,685	206,920

Source:--U.S. Department of Commerce, Bureau of the Census.

FISH MEAL AND SCRAP IMPORTS, BY COUNTRY OF ORIGIN, 1986 AND 1987

Country	1986		1987	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Chile	232,840	31,250	208,244	27,480
Canada.	36,018	5,476	64,364	8,958
Ecuador	49,752	5,245	11,890	1,446
Peru.	27,442	3,124	61,376	9,101
Panama.	20,536	1,575	44,468	4,937
Spain	864	124	1,324	203
Republic of Korea	166	25	796	90
Other	2,930	428	1,268	293
Total.	370,548	47,247	393,730	52,508

Source:--U.S. Department of Commerce, Bureau of the Census.



U.S. EXPORTS OF EDIBLE FISHERY PRODUCTS, 1987
(Million dollars)

EXPORTS

DOMESTIC FISHERY PRODUCTS EXPORTS, BY PRINCIPAL ITEMS, 1986 AND 1987

Item	1986		1987	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Edible fishery products:				
Eels, live	1,856	2,259	5,537	5,886
Fresh and frozen:				
Whole or eviscerated:				
Butterfish	2,205	1,798	7,575	10,457
Eels	1,324	515	300	461
Halibut	11,004	18,233	7,229	14,108
Herring	84,977	66,177	92,266	81,517
Mackerel	704	278	1,453	779
Mullet	1,566	1,513	2,654	1,689
Pollock	3,031	2,950	6,368	4,643
Sablefish	26,643	36,134	41,889	70,057
Salmon	290,458	546,231	267,735	604,163
Unclassified	59,980	68,641	82,491	103,627
Fillets, steaks, and portions:				
Cod	9,546	12,669	11,405	16,347
Halibut	1,816	2,996	1,212	2,230
Herring	5,455	4,045	2,751	2,512
Salmon	3,086	6,064	1,960	4,403
Unclassified	21,176	32,112	36,983	50,241
Fish sticks and portions	2,414	3,210	2,200	3,684
Clams	1,319	2,277	1,232	1,933
Crabs:				
Dungeness	503	2,043	691	3,133
King	3,966	24,487	8,375	60,581
Snow	31,420	73,571	43,339	117,530
Unclassified	5,405	15,706	3,741	11,897
Lobsters	2,602	8,990	3,784	14,392
Scallops	816	3,646	849	3,681
Sea urchins	1,271	11,451	2,931	25,389
Shrimp	20,043	69,119	21,981	74,851
Squid	14,374	11,811	16,422	11,938
Other fish and shellfish	6,530	14,663	19,405	32,056
Canned:				
Salmon	59,434	101,235	35,901	85,816
Sardines	271	321	999	688
Abalone	999	9,658	1,159	12,380
King crab	50	117	63	126
Shrimp	1,964	5,519	2,334	8,264
Squid	7,815	3,116	4,898	1,943
Other fish and shellfish	9,057	12,283	8,269	11,035
Cured:				
Cod	1,799	1,617	2,071	2,666
Salmon	862	2,445	266	1,071
Roe:				
Herring	10,583	19,148	6,810	23,125
Salmon	19,225	72,048	16,860	71,696
Sea urchin	284	1,470	607	2,869
Other	4,032	10,896	3,880	13,164
Other fish and shellfish	2,613	5,267	3,840	8,061
Other	548	1,078	220	520
Total edible fishery products	735,026	1,289,807	782,935	1,577,609
Nonedible fishery products:				
Meal and scrap	77,020	10,571	103,422	13,245
Fish oils	192,214	20,828	249,119	23,312
Seal furs	(1)	548	(1)	399
Other	-	34,342	-	45,808
Total nonedible fishery products	-	66,289	-	82,764
Grand total	-	1,356,096	-	1,660,373

(1) Number of seal furs was 10,837 in 1986 and 5,489 in 1987. Note--Does not include U.S.-flag vessel catches transferred onto foreign vessels in the U.S. EEZ joint venture operations (see page 17).

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC FISHERY PRODUCTS EXPORTS, BY CONTINENT AND COUNTRY OF DESTINATION, 1987

Continent and Country	Edible		Nonedible	Total
	Thousand pounds	- - - - - - - Thousand dollars	- - - - - -	
North America:				
Canada	85,444	158,540	5,342	163,882
Mexico	5,633	15,461	1,622	17,083
Bermuda	1,171	4,214	3	4,217
Honduras	1,189	1,515	133	1,648
Netherlands Antilles	928	1,390	121	1,511
Other	5,033	5,790	2,403	8,193
Total	99,398	186,910	9,624	196,534
South America:				
Ecuador	2,525	1,918	569	2,487
Venezuela	100	126	1,179	1,305
Brazil	11	34	1,168	1,202
Chile	61	176	663	839
Argentina	-	-	544	544
Other	144	339	780	1,119
Total	2,841	2,593	4,903	7,496
Europe:				
European Economic Community:				
United Kingdom	33,939	68,600	4,692	73,292
France	31,380	72,856	340	73,196
Netherlands	7,257	15,440	17,351	32,791
Federal Republic of Germany	5,896	11,517	1,077	12,594
Belgium and Luxembourg	4,803	11,238	809	12,047
Other	20,845	21,656	2,312	23,968
Total	104,120	201,307	26,581	227,888
Other:				
Sweden	10,775	17,642	351	17,993
Norway	1,528	2,965	827	3,792
Switzerland	901	2,263	62	2,325
Iceland	1,470	982	-	982
Turkey	436	543	-	543
Other	510	408	289	697
Total	15,620	24,803	1,529	26,332
Asia:				
Japan	495,317	1,057,688	17,223	1,074,911
Republic of Korea	32,682	41,446	1,286	42,732
Taiwan	4,829	14,260	5,704	19,964
Hong Kong	3,821	14,561	4,941	19,502
Thailand	1,136	3,388	550	3,938
Other	7,425	10,726	3,278	14,004
Total	545,210	1,142,069	32,982	1,175,051

(Continued)

DOMESTIC FISHERY PRODUCTS EXPORTS, BY CONTINENT AND COUNTRY OF DESTINATION, 1987 - Continued

Continent and Country	Edible		Nonedible	Total
	Thousand pounds	- - - - - - Thousand dollars	- - - - - -	
Australia and Oceania:				
Australia	11,178	16,118	594	16,712
New Zealand	340	899	86	985
French Pacific Islands	416	732	39	771
Other Pacific Islands	879	494	26	520
Marshall Islands	81	114	-	114
Other	107	50	-	50
Total	13,001	18,407	745	19,152
Africa:				
Egypt	2,066	761	6,019	6,780
Republic of South Africa	607	605	112	717
Liberia	40	61	93	154
Kenya	-	-	77	77
Tunisia	11	47	-	47
Other	21	46	99	145
Total	2,745	1,520	6,400	7,920
Grand Total	782,935	1,577,609	82,764	1,660,373

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC FISHERY PRODUCTS EXPORTS, 1978-87

Year	Edible		Nonedible	Total
	Thousand pounds	- - - - - - - Thousand dollars	- - - - - - -	
1978	448,312	831,654	73,880	905,534
1979	554,294	1,022,335	62,162	1,084,497
1980	573,896	904,363	101,791	1,006,154
1981	669,272	1,072,765	84,230	1,156,995
1982	657,246	998,873	60,011	1,058,884
1983	601,913	907,688	*113,804	1,021,492
1984	574,124	842,349	106,490	948,839
1985	648,146	1,010,268	73,846	1,084,114
1986	735,026	1,289,807	66,289	1,356,096
1987	*782,935	*1,577,609	82,764	*1,660,373

*Record. Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

EXPORTS

DOMESTIC AND FOREIGN SHRIMP PRODUCTS EXPORTS, 1986 AND 1987

Item	1986		1987	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Fresh and frozen:				
Domestic	20,043	69,119	21,981	74,851
Foreign	2,548	9,532	2,947	11,563
Total	22,591	78,651	24,928	86,414
Canned:				
Domestic	1,964	5,519	2,334	8,264
Foreign	113	265	85	152
Total	2,077	5,784	2,419	8,416
Total:				
Domestic	22,007	74,638	24,315	83,115
Foreign	2,661	9,797	3,032	11,715
Total	24,668	84,435	27,347	94,830

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC FRESH AND FROZEN SHRIMP EXPORTS, BY COUNTRY OF DESTINATION, 1986 AND 1987

Country	1986		1987	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Canada	6,796	23,123	8,960	28,943
Japan	4,605	16,978	5,824	21,976
Mexico	7,310	24,180	4,694	14,129
United Kingdom	64	272	280	1,342
Bermuda	151	957	190	1,147
Sweden	253	938	291	1,107
Ecuador	140	320	360	967
Netherlands	87	448	70	848
Norway	49	213	148	544
Other	588	1,690	1,164	3,848
Total	20,043	69,119	21,981	74,851

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC CANNED SHRIMP EXPORTS, BY COUNTRY OF DESTINATION, 1986 AND 1987

Country	1986		1987	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Canada	1,302	3,654	1,270	4,192
Thailand	36	65	219	1,041
Taiwan	192	584	341	1,035
Switzerland	125	299	103	383
Federal Republic of Germany	4	9	57	241
Ecuador	35	93	51	218
Sweden	-	-	38	194
United Kingdom	8	37	38	156
Japan	45	181	28	141
Other	217	597	189	663
Total	1,964	5,519	2,334	8,264

Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS

DOMESTIC FRESH AND FROZEN SALMON EXPORTS, WHOLE OR EVISCERATED, BY COUNTRY OF DESTINATION, 1986 AND 1987

Country	1986		1987	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Japan	216,964	445,574	194,140	457,153
France	23,298	38,814	23,838	57,530
Canada	16,873	20,787	20,652	38,490
United Kingdom	6,327	8,515	8,327	14,914
Belgium and Luxembourg	2,384	5,196	2,166	6,342
Republic of Korea	10,304	7,690	5,598	5,983
Denmark	3,082	4,118	3,390	5,905
Sweden	6,493	7,355	3,977	5,692
Federal Republic of Germany	2,264	3,370	1,901	3,858
Netherlands	592	1,319	1,576	3,672
Switzerland	553	1,012	576	1,182
Hong Kong	299	453	473	866
Other	1,025	2,028	1,121	2,576
Total	290,458	546,231	267,735	604,163

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC FRESH AND FROZEN SALMON EXPORTS, FILLETS, STEAKS OR PORTIONS, BY COUNTRY OF DESTINATION, 1986 AND 1987

Country	1986		1987	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Japan	637	1,343	1,169	2,593
Canada	825	1,543	410	912
United Kingdom	76	104	132	305
France	1,297	2,627	124	278
Federal Republic of Germany	29	65	75	188
Denmark	-	-	12	27
Republic of Korea	-	-	9	23
Venezuela	-	-	6	18
Taiwan	-	-	7	16
Other	222	382	16	43
Total	3,086	6,064	1,960	4,403

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC CANNED SALMON EXPORTS, BY COUNTRY OF DESTINATION, 1986 AND 1987

Country	1986		1987	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
United Kingdom	35,362	62,525	17,722	45,355
Canada	6,569	13,949	6,379	15,004
Australia	8,805	12,745	6,868	14,101
Netherlands	5,016	6,913	2,107	5,788
Belgium and Luxembourg	1,676	2,277	1,021	1,734
Japan	293	528	326	828
New Zealand	8	12	262	711
France	466	586	244	612
Ireland	257	352	136	215
Other	982	1,348	836	1,468
Total	59,434	101,235	35,901	85,816

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

EXPORTS

DOMESTIC FROZEN KING CRAB EXPORTS, BY COUNTRY OF DESTINATION, 1986 AND 1987

Country	1986		1987	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Japan	2,797	19,277	7,181	54,674
Canada	1,098	4,718	1,028	4,935
Federal Republic of Germany	4	35	50	189
Italy	1	4	18	149
Hong Kong	5	41	30	148
United Kingdom	14	59	17	123
Other	47	353	51	363
Total	3,966	24,487	8,375	60,581

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC FROZEN SNOW CRAB EXPORTS, BY COUNTRY OF DESTINATION, 1986 AND 1987

Country	1986		1987	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Japan	24,182	62,318	36,564	100,599
Republic of Korea	6,172	9,176	5,842	14,901
Canada	1,000	1,806	874	1,791
Federal Republic of Germany	11	33	20	120
Denmark	-	-	9	39
Singapore	12	53	12	33
Other	43	185	18	47
Total	31,420	73,571	43,339	117,530

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC FRESH AND FROZEN HERRING EXPORTS, WHOLE OR EVISCERATED, BY COUNTRY OF DESTINATION, 1986 AND 1987

Country	1986		1987	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Japan	63,814	46,830	67,622	59,398
Republic of Korea	11,471	11,806	13,290	13,152
Canada	5,520	3,962	10,342	7,939
China	3,208	2,558	899	973
Australia	-	-	4	24
Other	964	1,021	109	31
Total	84,977	66,177	92,266	81,517

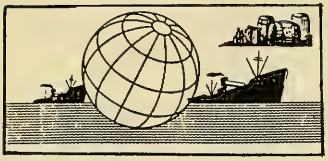
Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS

DOMESTIC FISH AND MARINE ANIMAL OIL EXPORTS, BY COUNTRY OF DESTINATION, 1986 AND 1987

Country	1986		1987	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Netherlands	126,553	13,531	193,090	16,360
United Kingdom	13,659	1,494	35,991	3,909
Spain	5,896	603	7,697	720
Belgium and Luxembourg	14,348	1,718	8,957	670
Norway	13,565	1,399	218	640
Canada	466	258	598	307
Federal Republic of Germany	904	88	2,035	220
Mexico	118	49	139	91
Panama	-	-	225	61
Other	16,705	1,688	169	334
Total	192,214	20,828	249,119	23,312

Source:--U.S. Department of Commerce, Bureau of the Census.



DOMESTIC FISH MEAL EXPORTS, BY COUNTRY OF DESTINATION, 1986 AND 1987

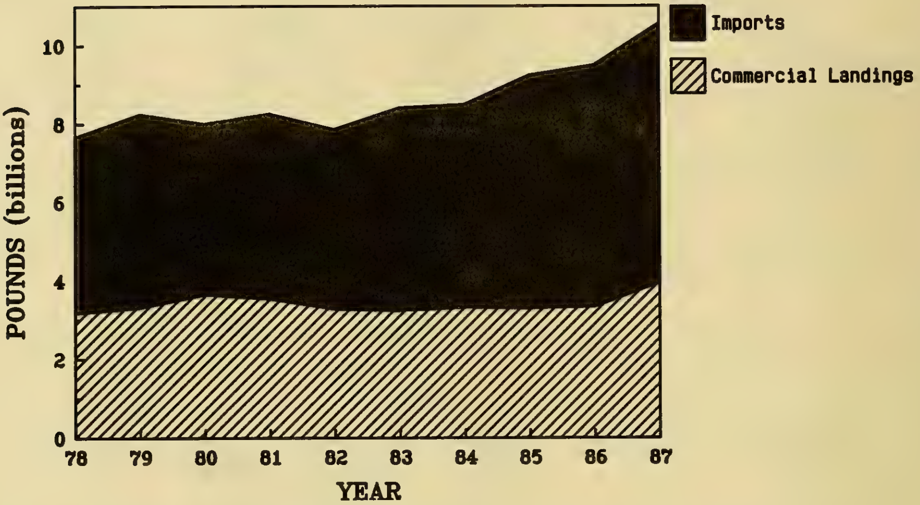
Country	1986		1987	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Egypt	42,590	6,872	36,800	6,019
Taiwan	5,096	749	17,008	2,399
Canada	7,568	568	19,404	1,491
Japan	3,218	469	3,692	691
Jamaica	1,342	168	4,716	620
Trindad and Tobago	3,982	587	3,242	454
Dominican Republic	1,780	194	2,230	294
Honduras	600	111	748	124
Thailand	722	41	1,364	120
Other	10,122	812	14,218	1,033
Total	77,020	10,571	103,422	13,245

Source:--U.S. Department of Commerce, Bureau of the Census.

U.S. SUPPLY OF EDIBLE FISHERY PRODUCTS

(ROUND WEIGHT)

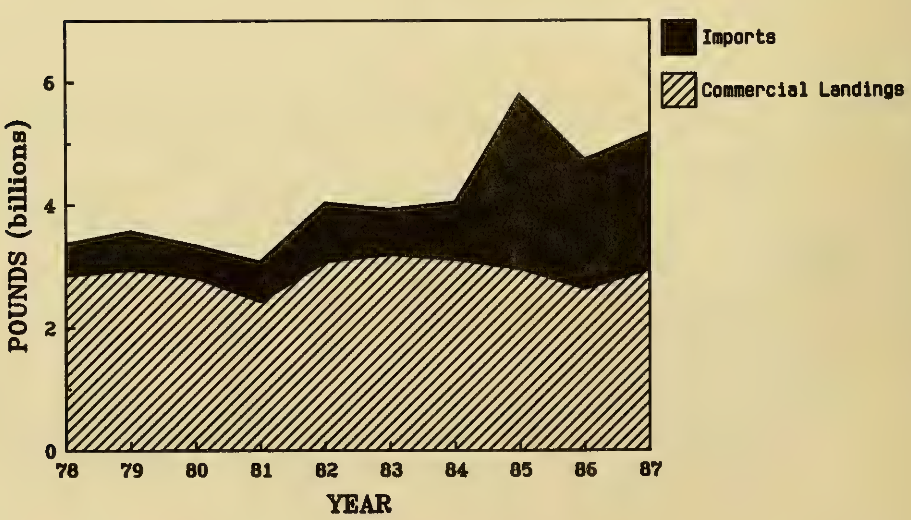
1978 - 1987



U.S. SUPPLY OF INDUSTRIAL FISHERY PRODUCTS

(ROUND WEIGHT)

1978-1987



U.S. SUPPLY OF EDIBLE AND INDUSTRIAL COMMERCIAL FISHERY PRODUCTS, 1978-87
(Round weight)

Year	Domestic commercial landings (1)		Imports (2)		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
1978	6,028	52.4	5,481	47.6	11,509
1979	6,267	53.0	5,564	47.0	11,831
1980	6,482	57.1	4,875	42.9	11,357
1981	5,977	52.6	5,376	47.4	11,353
1982	6,367	53.0	5,644	47.0	12,011
1983	6,439	52.1	5,913	47.9	12,352
1984	6,438	51.3	6,114	48.7	12,552
1985	6,258	41.3	8,892	58.7	15,150
1986	6,031	42.2	8,337	57.8	14,368
1987	*6,896	43.8	8,848	56.2	15,744

(1) Preliminary.
(2) Excludes imports of edible fishery products consumed in Puerto Rico, but includes landings of foreign-caught tuna in American Samoa.
*Record. Records--1968 imports: 13,221 million lb; 1968 total: 17,381 million lb.

Note:--The weights of U.S. landings and imports represent the round (live) weight of all items except univalve and bivalve mollusks (conchs, clams, oysters, scallops, etc.) which are shown in weight of meats (excluding the shell).

U.S. SUPPLY OF EDIBLE COMMERCIAL FISHERY PRODUCTS, 1978-87
(Round weight)

Year	Domestic commercial landings (1)		Imports (2)		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
1978	3,177	39.1	4,958	60.9	8,135
1979	3,318	40.2	4,933	59.8	8,251
1980	3,654	45.6	4,352	54.4	8,006
1981	3,547	42.9	4,720	57.1	8,267
1982	3,285	41.2	4,683	58.8	7,968
1983	3,238	38.5	5,175	61.5	8,413
1984	3,320	39.1	5,178	60.9	8,498
1985	3,294	35.3	6,043	64.7	9,337
1986	3,393	35.5	6,227	64.5	9,620
1987	*3,946	37.4	*6,615	62.6	*10,561

(1) Preliminary.
(2) Excludes imports of edible fishery products consumed in Puerto Rico, but includes landings of foreign-caught tuna in American Samoa. *Record.

U.S. SUPPLY OF INDUSTRIAL COMMERCIAL FISHERY PRODUCTS, 1978-87
(Round weight)

Year	Domestic commercial landings (1)		Imports		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
1978	2,851	84.5	523	15.5	3,374
1979	2,949	82.4	631	17.6	3,580
1980	2,828	84.4	523	15.6	3,351
1981	2,430	78.7	656	21.3	3,086
1982	3,082	76.2	961	23.8	4,043
1983	*3,201	81.3	738	18.7	3,939
1984	3,118	76.9	936	23.1	4,054
1985	2,964	51.0	2,849	49.0	5,813
1986	2,638	55.6	2,110	44.4	4,748
1987	2,950	56.9	2,233	43.1	5,183

(1) Preliminary. *Record. Records--1968 imports: 9,989 million lb; 1968 total: 11,802 million lb.

U.S. SUPPLY OF COMMERCIAL FINFISH AND SHELLFISH, 1986 AND 1987

Item	Domestic commercial landings		Imports (1)		Total	
	1986	1987	1986	1987	1986	1987
	Million pounds, round weight					
Edible fishery products:						
Finfish	2,240	2,769	4,847	5,150	7,087	7,919
Shellfish	1,153	1,177	1,380	1,465	2,533	2,642
Total	3,393	3,946	6,227	6,615	9,620	10,561
Industrial fishery products:						
Finfish	2,631	2,939	2,110	2,233	4,741	5,172
Shellfish	7	11	(3)	(3)	7	11
Total	2,638	2,950	2,110	2,233	4,748	5,183
Total:						
Finfish	4,871	5,708	6,957	7,383	11,828	13,091
Shellfish	1,160	1,188	1,380	1,465	2,540	2,653
Total.	6,031	6,896	8,337	8,848	14,368	15,744

See footnotes below.

VALUE OF U.S. SUPPLY OF COMMERCIAL FINFISH AND SHELLFISH, 1986 AND 1987

Item	Domestic commercial landings		Imports (1)		Total	
	1986	1987	1986	1987	1986	1987
	Million dollars					
Edible fishery products:						
Finfish	1,204	1,502	2,354	2,884	3,558	4,386
Shellfish	1,437	1,477	2,409	2,772	3,846	4,249
Total.	2,641	2,979	4,763	5,656	7,404	8,635
Industrial fishery products:						
Finfish	115	127	(2)50	(2)55	165	182
Shellfish	7	9	(3)	(3)	7	9
Total.	122	136	(3)50	55	172	191
Total:						
Finfish	1,319	1,629	2,404	2,939	3,723	4,568
Shellfish	1,444	1,486	2,409	2,772	3,853	4,258
Total.	2,763	3,115	4,813	5,711	7,576	8,826

(1) Excludes imports of edible fishery products consumed in Puerto Rico, but includes landings of foreign-caught tuna in American Samoa.

(2) Includes only quantity and value of fish meal and sea herring for industrial purposes.

(3) Not available.

Note:--Value of domestic commercial landings is exvessel value.

U.S. SUPPLY OF REGULAR AND MINCED BLOCKS, 1978-87
(Edible weight)

Year	U.S. production		Imports		Total supply
	Quantity	Percentage of total supply	Quantity	Percentage of total supply	Quantity
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1978	1,879	0.5	406,286	99.5	408,165
1979	4,857	1.2	*408,152	98.8	*413,009
1980	1,205	.4	336,117	99.6	337,322
1981	1,029	.3	344,111	99.7	345,140
1982	2,766	.9	318,966	99.1	321,732
1983	5,155	1.3	384,458	98.7	389,613
1984	2,655	.8	316,165	99.2	318,820
1985	2,551	.8	334,060	99.2	336,611
1986	3,919	1.1	363,897	98.9	367,816
1987	2,850	.7	403,577	99.3	406,427

*Record.

U.S. SUPPLY OF ALL FILLETS AND STEAKS, 1978-87
(Edible weight)

Year	U.S. production (1)		Imports		Total supply
	Quantity	Percentage of total supply	Quantity	Perentage of total supply	Quantity
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1978	184,356	30.3	423,749	69.7	608,105
1979	187,167	30.4	427,526	69.6	614,693
1980	202,779	35.5	369,161	64.5	571,940
1981	205,225	33.1	414,163	66.9	619,388
1982	217,644	33.0	440,916	67.0	658,560
1983	230,649	34.4	439,716	65.6	670,365
1984	252,288	34.8	473,594	65.2	725,882
1985	245,525	31.4	536,725	68.6	782,250
1986	*279,468	34.2	538,532	65.8	818,000
1987	276,923	30.9	*620,985	69.1	*897,908

(1) Includes fillets used to produce blocks. *Record.

U.S. SUPPLY OF GROUNDFISH FILLETS AND STEAKS, 1978-87
(Edible weight)

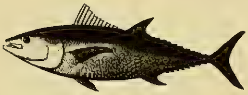
Year	U.S. production (1)		Imports		Total supply
	Quantity	Percentage of total supply	Quantity	Percentage of total supply	Quantity
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1978	65,573	22.0	233,106	78.0	298,679
1979	74,568	22.8	252,957	77.2	327,525
1980	67,221	23.3	220,954	76.7	288,175
1981	77,092	23.1	257,164	76.9	334,256
1982	70,994	19.4	295,193	80.6	366,187
1983	81,223	21.4	298,170	78.6	379,393
1984	94,943	23.6	307,852	76.4	402,795
1985	84,244	21.6	305,690	78.4	389,934
1986	107,008	27.1	287,099	72.9	394,107
1987	93,685	22.9	*315,418	77.1	*409,282

(1) Includes fillets used to produce blocks. Species include: cod, cusk, haddock, hake, Atlantic pollock, and Atlantic ocean perch. *Record. Record--1951 U.S. production: 148,786,000 lb.

U.S. COMMERCIAL LANDINGS AND IMPORTS OF TUNA, 1978-87

Year	Domestic commercial landings			Imports		
	Atlantic, Gulf, Pacific Coast States, and Hawaii	Puerto Rico (1)	Total	Fresh and frozen including cooked loins and discs (2)	Canned	
					In oil	Not in oil
	Round weight				Product weight	
	Thousand pounds					
1978	408,878	156,813	565,691	*870,259	207	51,574
1979	364,476	143,676	508,152	810,066	627	53,076
1980	399,432	100,606	500,038	770,396	446	63,107
1981	341,149	148,729	489,878	769,675	268	70,583
1982	261,409	211,679	473,088	589,558	213	87,366
1983	278,692	307,298	585,990	533,686	197	122,132
1984	211,830	371,089	582,919	497,079	277	162,036
1985	83,054	433,083	516,137	482,742	303	213,645
1986	87,811	469,034	556,845	567,524	301	*236,320
1987	100,058	526,186	626,244	572,505	329	211,356

(1) Includes a quantity of fish landed in American Samoa and other ports by U.S.-flag vessels.
(2) Includes landings in American Samoa of foreign-caught fish.
*Record.



U.S. SUPPLY OF CANNED TUNA, 1978-87
(Canned weight)

Year	Domestic production				Imported Canned		Total supply
	Albacore		Lightmeat				
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1978. . . .	146,797	19.4	557,996	73.8	51,781	6.8	756,574
1979. . . .	119,517	17.7	500,716	74.3	53,703	8.0	673,936
1980. . . .	113,605	17.1	488,451	73.4	63,553	9.5	665,609
1981. . . .	120,983	17.3	505,986	72.5	70,851	10.2	697,820
1982. . . .	125,113	20.0	413,390	66.0	87,579	14.0	626,082
1983. . . .	106,175	14.9	484,367	67.9	122,329	17.2	712,871
1984. . . .	136,745	17.6	477,536	61.5	162,313	20.9	776,594
1985. . . .	132,001	17.4	412,992	54.4	213,948	28.2	758,941
1986. . . .	157,341	18.0	479,490	54.9	236,621	27.1	873,452
1987. . . .	139,888	16.2	514,095	59.4	211,685	24.5	865,668

U.S. SUPPLY OF CANNED SARDINES, 1978-87
(Canned weight)

Year	U.S. pack	Imports			Total	Exports	
		In oil	Not in oil	Total		Domestic	Foreign
	- - - - - - - - -	- - - - - - - - -	- - - - - - - - -	Thousand pounds	- - - - - - - - -	- - - - - - - - -	- - - - - - - - -
1978	25,909	24,231	24,486	48,717	74,626	1,555	173
1979	30,030	22,878	26,879	49,757	79,787	1,591	301
1980	19,500	18,218	32,960	51,178	70,678	1,839	78
1981	30,586	18,239	37,034	55,273	85,859	1,731	183
1982	18,003	14,119	35,925	50,044	68,047	1,049	195
1983	13,110	17,151	18,096	35,247	48,357	1,013	920
1984	14,650	17,535	27,216	44,751	59,401	889	860
1985	20,016	23,009	34,213	57,222	77,238	529	570
1986	15,601	22,949	30,315	53,264	68,865	271	287
1987	13,116	27,352	37,670	65,022	78,138	999	158

*Record--1974 imports: 69,137,000 lb.

U.S. SUPPLY OF CANNED SALMON, 1978-87
(Canned weight)

Year	U.S. pack	Imports	Total	Exports	
				Domestic	Foreign
	- - - - - - - - -	- - - - - - - - -	Thousand pounds	- - - - - - - - -	- - - - - - - - -
1978	148,587	325	148,912	32,513	33
1979	148,822	434	149,256	50,907	70
1980	200,003	167	200,170	*74,006	58
1981	214,855	71	214,926	63,494	201
1982	112,100	158	112,258	41,156	111
1983	181,166	277	181,443	54,488	422
1984	198,926	551	199,477	48,963	245
1985	158,943	1,958	160,901	48,240	39
1986	141,756	4,622	146,378	59,434	(1)
1987	112,080	6,652	118,732	35,901	207

(1) Less than 500 lb. *Record. Records--1936 U.S.pack: 430,328,000 lb; 1959 imports: 31,154,000 lb.

U.S. SUPPLY OF CLAM MEATS, 1978-87
(Meat weight)

Year	U.S. commercial landings					Imports (1)	Total for U.S. consumption
	Hard	Soft	Surf	Other	Total		
	- - - - - - - - -	- - - - - - - - -	- - - - - - - - -	Thousand pounds	- - - - - - - - -	- - - - - - - - -	- - - - - - - - -
1978	13,295	10,091	39,237	25,088	87,711	6,131	93,842
1979	12,058	8,585	34,912	36,495	92,050	7,273	99,323
1980	13,370	8,948	37,737	35,314	95,369	6,908	102,277
1981	18,118	8,072	46,100	48,341	120,631	9,520	130,151
1982	12,855	8,021	49,720	37,709	108,305	11,122	119,427
1983	14,186	8,460	55,938	36,821	115,405	11,006	126,411
1984	14,749	7,919	70,243	40,010	132,921	11,113	144,034
1985	16,697	7,865	72,520	53,469	*150,551	12,979	*163,530
1986	11,793	5,887	78,749	48,964	145,393	16,880	162,273
1987	11,418	7,469	60,744	54,726	134,357	*17,641	151,998

(1) Imports were converted to meat weight by using these conversion factors: 0.40, in shell or shucked; 0.30, canned chowder and juice; and 0.93, other. *Record.

U.S. SUPPLY OF KING CRAB, 1978-87
(Round weight)

Year	U.S. commercial landings	Exports (1)	
		Frozen	Canned
	- - - - - - - - - Thousand pounds	- - - - - - - - -	
1978	130,238	52,966	2,462
1979	154,589	64,187	4,616
1980	*185,624	50,525	1,988
1981	88,054	27,704	704
1982	38,492	8,958	1,071
1983	25,581	2,039	346
1984	17,204	3,521	448
1985	15,363	4,053	752
1986	25,909	6,941	267
1987	29,065	14,656	336

(1) Domestic merchandise. Converted to round (live) weight by using these conversion factors: 1.75, frozen; and 5.33, canned. *Record.

U.S. SUPPLY OF SNOW (TANNER) CRABS, 1978-87
(Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (2)
	- - - - - - - - - - - Thousand	pounds - - - - - - - - - - -		
1978	129,506	4,460	133,966	67,530
1979	*131,393	4,254	135,647	91,543
1980	121,684	3,732	125,416	71,871
1981	107,474	3,460	110,934	68,156
1982	68,767	3,135	71,902	47,220
1983	61,077	3,362	64,439	34,415
1984	48,765	4,992	53,757	31,127
1985	85,742	6,572	92,314	47,436
1986	110,000	5,510	115,510	66,925
1987	113,812	7,706	121,518	92,312

(1) Converted to round (live) weight by multiplying canned weight by 5.00. (2) Domestic merchandise converted to round (live) weight by multiplying frozen weight by 2.13 (believed to be mostly sections). Data for foreign exports not available. *Record.

U.S. SUPPLY OF CANNED CRABMEAT, 1978-87
(Canned weight)

Year	U.S. pack	Percentage of total	Imports	Percentage of total	Total	Exports (1)
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds	Thousand pounds
1978	3,593	47.0	4,053	53.0	7,646	462
1979	2,958	36.8	5,073	63.1	8,031	866
1980	3,916	43.9	5,002	56.1	8,918	373
1981	1,725	25.6	5,019	74.4	6,744	132
1982	1,349	19.0	5,737	81.0	7,086	201
1983	1,435	18.1	6,505	81.9	7,940	65
1984	1,084	14.8	6,233	85.2	7,317	84
1985	553	6.8	7,584	93.2	8,137	141
1986 (2)	591	6.3	8,778	93.7	9,369	50
1987	178	2.2	7,967	97.8	8,145	63

(1) Domestic king crab only. (2) Revised. Records--1966 U.S. pack: 11,002,000 lb; 1939 imports: 13,507,000 lb.

U.S. SUPPLY OF AMERICAN LOBSTERS, 1978-87
(Round weight)

Year	U.S. commercial landings		Imports(1)				Total supply
	Quantity	Percentage of total supply	Quantity			Percentage of total supply	
			Fresh and frozen	Canned	Total		
	Thousand pounds	Percent	- - - Thousand pounds - - -			Percent	Thousand pounds
1978	34,419	55.9	16,468	10,648	27,116	44.1	61,535
1979	37,184	54.5	22,790	8,307	31,097	45.5	68,281
1980	36,952	53.4	22,503	9,699	32,202	46.6	69,154
1981	37,494	48.2	26,857	13,459	40,316	51.8	77,810
1982	39,445	48.6	26,205	15,480	41,685	51.4	81,130
1983	44,206	47.7	43,439	4,977	48,416	52.3	92,622
1984	43,967	43.9	54,359	1,783	56,142	56.1	100,109
1985	*46,152	42.9	57,358	4,029	61,387	57.1	107,539
1986	46,053	40.8	65,276	1,633	66,909	59.2	112,962
1987	45,558	40.0	66,585	2,956	*69,541	60.0	*115,099

(1) Imports were converted to round (live) weight by using these conversion factors: 1.00, whole; 4.50, meat; and 4.64, canned. *Record.

U.S. SUPPLY OF SPINY LOBSTERS, 1978-87
(Round weight)

Year	U.S. commercial landings		Imports (1)				Total supply
	Quantity	Percentage of total supply	Quantity			Percentage of total supply	
			Fresh and frozen	Canned	Total		
	Thousand pounds	Percent	- - - Thousand pounds - - -			Percent	Thousand pounds
1978	4,629	3.1	143,945	563	144,508	96.9	149,137
1979	6,301	4.0	150,470	604	151,074	96.0	157,375
1980	6,861	5.4	119,817	395	120,212	94.6	127,073
1981	6,619	4.9	126,210	978	127,188	95.1	133,807
1982	6,438	5.1	120,679	230	120,909	94.9	127,347
1983	5,218	3.8	131,102	588	131,690	96.2	136,908
1984	6,303	4.1	146,990	79	147,069	95.9	153,372
1985	5,311	3.5	148,324	253	148,577	96.5	153,888
1986	6,775	4.5	144,933	164	145,097	95.5	151,872
1987	5,755	3.8	145,093	613	145,706	96.2	151,461

(1) Imports were converted to round (live) weight by using these conversion factors: 1.00, whole; 3.00, tails; 4.35, other; and 4.50, canned. *Record. Records--1972 landings, 12,215,000 lb.; 1976 imports, 168,095,000; and 1976 total supply, 173,738,000 lb.

U.S. SUPPLY OF OYSTERS, 1978-87
(Meat weight)

Year	U.S. commercial landings			Imports (2)	Total for U.S. consumption
	Eastern	Pacific (1)	Total		
	Thousand pounds				
1978	45,183	5,800	50,983	33,843	84,826
1979	42,325	5,756	48,081	27,131	75,212
1980	42,439	6,642	49,081	21,732	70,813
1981	44,440	5,612	50,052	25,769	75,821
1982	48,489	5,839	54,328	27,529	81,857
1983	44,729	5,431	50,160	30,775	80,935
1984	41,808	6,479	48,287	36,086	84,373
1985	36,578	7,595	44,173	45,926	90,099
1986	35,013	5,531	40,544	50,038	90,582
1987	29,957	9,850	39,807	*52,085	91,892

(1) Includes Western. (2) Imports were converted to meat weight by using these conversion factors: 0.93, canned; 3.12, canned smoked; and 0.75, other. *Record. Record - 1908 landings: 152,046,000 lb.

U.S. SUPPLY OF SCALLOP MEATS, 1978-87
(Edible weight)

Year	U.S. commercial landings				Imports	Total for U.S. consumption
	Bay	Calico	Sea	Total		
	Thousand pounds					
1978	1,371	948	30,976	33,295	28,367	61,662
1979	1,774	863	31,466	34,103	25,155	59,258
1980	968	-	28,752	29,720	20,885	50,605
1981	670	14,641	30,277	45,588	26,227	71,815
1982	1,780	11,010	21,325	34,115	20,860	54,975
1983	2,338	9,606	20,478	32,422	34,280	66,702
1984	1,728	39,330	18,427	*59,485	27,270	*86,755
1985	1,331	12,513	15,829	29,673	42,035	71,708
1986	735	1,616	19,992	22,343	*47,916	70,259
1987	580	8,155	32,038	40,773	39,934	80,707

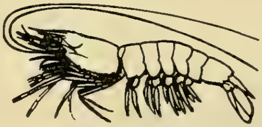
*Record.

U.S. SUPPLY OF ALL FORMS OF SHRIMP, 1978-87
(Heads-off weight)

Year	U.S. Commercial landings	Imports (1)	Total	Exports (2)			
				Fresh and frozen		Canned	
				Domestic	Foreign	Domestic	Foreign
	Thousand pounds						
1978	256,882	240,414	497,296	41,065	13,308	12,088	146
1979	205,587	269,263	474,850	34,143	5,826	11,047	63
1980	207,869	258,069	465,938	18,777	9,567	11,781	*935
1981	218,900	259,112	478,012	20,777	13,687	9,181	78
1982	175,613	319,596	495,209	18,350	12,738	6,064	45
1983	155,591	421,179	576,770	21,776	6,560	7,573	28
1984	188,132	422,340	610,472	15,961	5,069	5,478	83
1985	207,239	452,232	659,471	17,708	5,735	3,159	338
1986	244,409	492,005	736,414	23,650	2,548	3,967	285
1987	223,514	*583,030	*806,544	25,938	2,947	4,714	214

(1) Imports were converted to heads-off weight by using these conversion factors: 0.63, breaded; 1.00, shell-on; 1.28, peeled raw; 2.52, canned; and 2.40, other. (2) Exports were converted to heads-off weight by using these conversion factors: domestic--fresh and frozen, 1.18 and canned 2.02; foreign--fresh and frozen, 1.00 and canned, 2.52.

*Record. Records--1973 fresh and frozen domestic exports: 44,172,000 lb; 1970 fresh and frozen foreign exports: 14,699,000 lb; 1973 domestic canned: 20,097,000 lb.



U.S. SUPPLY OF CANNED SHRIMP, 1978-87
(Canned weight)

Year	U.S. pack	Percentage of total	Imports	Percentage of total	Total	Exports	
						Domestic	Foreign
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds		
1978	16,201	85.5	2,739	14.5	18,940	5,984	58
1979	11,118	72.2	4,288	27.8	15,406	5,469	25
1980	15,289	78.4	4,225	21.6	19,514	5,832	*371
1981	9,693	68.9	4,383	31.1	14,076	4,545	31
1982	6,276	54.1	5,332	45.9	11,608	3,002	18
1983	6,723	33.8	13,176	66.2	19,899	3,749	11
1984	7,246	34.8	13,580	65.2	20,826	2,712	33
1985	4,001	19.0	17,088	81.0	21,089	1,564	134
1986 (1)	4,596	22.6	15,757	77.4	20,353	1,964	113
1987	4,418	20.5	17,132	79.5	21,550	2,334	85

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(1) Revised. *Record. Records--1973 U.S. pack: 25,228,000 lb; 1970 total: 29,001,000 lb 1973 domestic exports: 9,949,000 lb.

U.S. SUPPLY OF FISH MEAL AND SOLUBLES, 1978-87
(Product weight)

Year	Domestic production (1)		Imports (2)		Total
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pound
1978	888,364	91.0	87,802	9.0	976,166
1979	883,514	83.1	179,226	16.9	1,062,740
1980	857,526	89.6	99,074	10.4	956,600
1981	765,640	86.6	118,868	13.4	884,508
1982	899,356	84.2	168,664	15.8	1,068,020
1983	*922,040	87.2	135,880	12.8	1,057,920
1984	877,566	84.0	166,888	16.0	1,044,454
1985	883,196	63.4	510,654	36.6	1,393,850
1986	799,826	68.3	370,548	31.7	1,170,374
1987	905,996	69.7	393,730	30.3	1,299,726

(1) Includes shellfish meal production plus the production of U.S. solubles. (2) Data do not include imports of fish solubles. *Record. Records--1968 imports: 1,712,344,000 lb, 1968 total supply: 2,254,450,000 lb.

Note:--Wet weight of solubles has been converted to dry weight by reducing its poundage by one-half.

U.S. SUPPLY OF FISH MEAL, 1978-87
(Product weight)

Year	Domestic production (1)	Imports	Total supply	Exports	
				Domestic	Foreign
	- - - - - - - - - - - - - -	- - - - - - Thousand pounds	- - - - - - - - - -	- - - - - -	- - - - - -
1978	725,820	87,802	813,622	101,400	7,866
1979	748,586	179,226	927,812	31,402	1,510
1980	723,844	99,074	822,918	170,562	2,942
1981	637,018	118,868	755,886	94,054	5,384
1982	746,854	168,664	915,518	35,880	4,662
1983	763,536	135,880	899,416	154,834	6,848
1984	751,528	166,888	918,416	40,356	1,234
1985	721,682	510,654	1,232,336	69,166	808
1986	702,194	370,548	1,072,742	77,020	952
1987	*787,232	393,730	1,180,962	103,422	664

(1) Includes shellfish meal. *Record. Records--1968 imports: 1,710,570,000, lb; 1968 total supply 2,180,842,000 lb.

U.S SUPPLY OF FISH OILS, 1978-87

Year	Domestic production	Imports (1)	Total supply	Exports	Total for U.S. consumption
	- - - - - - - - - - - - - -	- - - - - -	Thousand pounds	- - - - - -	- - - - - -
1978	296,287	16,040	312,327	222,012	90,315
1979	267,949	14,455	282,404	198,497	83,907
1980	312,511	21,350	333,861	284,009	49,852
1981	184,302	18,255	202,557	238,308	(2)
1982	347,513	12,699	360,212	202,345	157,867
1983	*399,334	15,334	414,668	*404,087	10,581
1984	372,804	13,426	386,230	399,425	(2)
1985	285,077	17,254	302,331	279,080	23,251
1986	336,708	19,212	355,920	192,214	163,706
1987	298,298	25,697	323,995	249,119	74,876

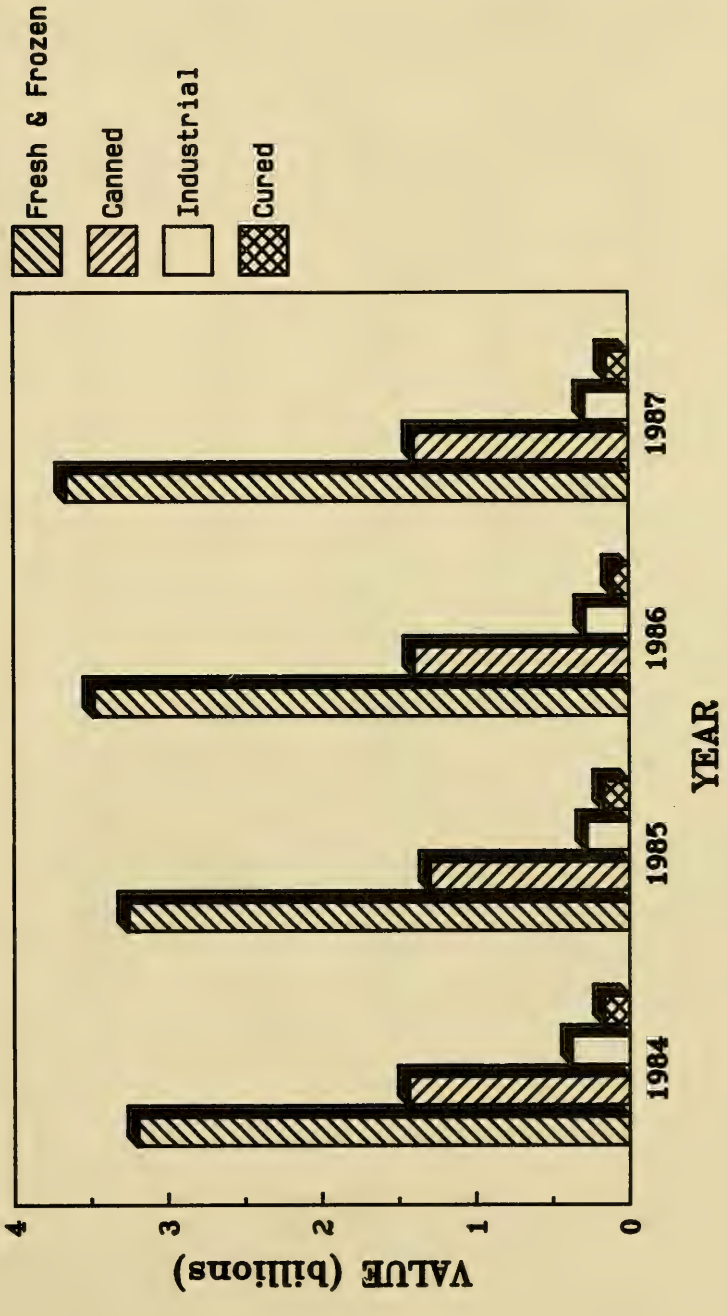
(1) Excludes fish liver oils. (2) The 1981 and 1984 exports, which included prior year stocks, exceeded domestic production plus imports. *Record.

Note:--Does not include exports of foreign merchandise.

VALUE OF PROCESSED FISHERY PRODUCTS

FROM DOMESTIC CATCH AND IMPORTED PRODUCTS

1984 – 1987



U.S. CONSUMPTION

Annual per capita consumption of seafood products represents the pounds of edible meat consumed from domestically-caught and imported fish and shellfish adjusted for beginning and ending inventories, and reports, divided by the civilian population of the United States as of July 1 of each year.

U.S. ANNUAL PER CAPITA USE OF COMMERCIAL FISH AND SHELLFISH, 1909-87

Year	Civilian resident population July 1 (1)	Per capita consumption			
		Fresh and Frozen (2)	Canned (3)	Cured (4)	Total
	Million persons	- - - - - - - -Pounds, edible meat- - - - - - - -			
1909 (5)	90.5	4.3	2.7	*4.0	11.0
1910	92.2	4.5	2.8	3.9	11.2
1911	93.9	4.8	2.8	3.7	11.3
1912	95.3	5.0	2.9	3.4	11.3
1913	97.2	5.3	2.9	3.3	11.5
1914	99.1	5.6	3.0	3.1	11.7
1915	100.5	5.8	2.4	3.0	11.2
1916	102.0	6.0	2.2	2.8	11.0
1917	103.3	6.2	2.0	2.7	10.9
1918	103.2	6.4	2.0	2.5	10.9
1919	104.5	6.4	2.8	2.4	11.6
1920	106.5	6.3	3.2	2.3	11.8
1921	108.5	6.2	2.2	2.1	10.5
1922	110.0	6.1	3.2	2.0	11.3
1923	111.9	6.0	2.9	1.8	10.7
1924	114.1	6.1	3.2	1.7	11.0
1925	115.8	6.3	3.2	1.6	11.1
1926	117.4	6.6	3.4	1.4	11.4
1927	119.0	7.0	3.9	1.3	12.2
1928	120.5	7.1	3.9	1.1	12.1
1929	121.8	6.9	3.9	1.1	11.9
1930	122.9	5.8	3.4	1.0	10.2
1931	123.9	4.9	3.2	0.7	8.8
1932	124.7	4.3	3.4	0.7	8.4
1933	125.4	4.2	3.9	0.6	8.7
1934	126.2	4.3	4.2	0.7	9.2
1935	127.1	5.1	4.7	0.7	10.5
1936	127.9	5.2	*5.8	0.7	11.7
1937	128.6	5.6	5.3	0.9	11.8
1938	129.6	5.2	4.8	0.8	10.8
1939	130.7	5.3	4.7	0.7	10.7
1940	132.1	5.7	4.6	0.7	11.0
1941	132.1	6.3	4.2	0.7	11.2
1942	131.4	5.2	2.9	0.6	8.7
1943	128.0	5.5	1.8	0.6	7.9
1944	127.2	5.5	2.6	0.6	8.7
1945	128.1	6.6	2.6	0.7	9.9
1946	138.9	5.9	4.2	0.7	10.8
1947	143.1	5.8	3.8	0.7	10.3
1948	145.7	6.0	4.4	0.7	11.1
1949	148.2	5.8	4.5	0.6	10.9
1950	150.8	6.3	4.9	0.6	11.8
1951	151.6	6.3	4.3	0.6	11.2
1952	153.9	6.2	4.3	0.7	11.2
1953	156.6	6.4	4.3	0.7	11.4
1954	159.7	6.2	4.3	0.7	11.2
1955	163.0	5.9	3.9	0.7	10.5
1956	166.1	5.7	4.0	0.7	10.4
1957	169.1	5.5	4.0	0.7	10.2
1958	172.2	5.7	4.3	0.6	10.6
1959	175.3	5.9	4.4	0.6	10.9

See notes at end of table.

(Continued)

U.S. CONSUMPTION

U.S. ANNUAL PER CAPITA USE OF COMMERCIAL FISH AND SHELLFISH, 1909-87 - Continued

Year	Civilian resident population July 1 (1)	Per capita consumption			
		Fresh and Frozen (2)	Canned (3)	Cured (4)	Total
	Million persons	Pounds, edible meat			
1960	178.1	5.7	4.0	0.6	10.3
1961	181.1	5.9	4.3	0.5	10.7
1962	183.7	5.8	4.3	0.5	10.6
1963	186.5	5.8	4.4	0.5	10.7
1964	189.1	5.9	4.1	0.5	10.5
1965	191.6	6.0	4.3	0.5	10.8
1966	193.4	6.1	4.3	0.5	10.9
1967	195.3	5.8	4.3	0.5	10.6
1968	197.1	6.2	4.3	0.5	11.0
1969	199.1	6.6	4.2	0.4	11.2
1970	201.9	6.9	4.5	0.4	11.8
1971	204.9	6.7	4.3	0.5	11.5
1972	207.5	7.1	4.9	0.5	12.5
1973	209.6	7.4	5.0	0.4	12.8
1974	211.6	6.9	4.7	0.5	12.1
1975	213.8	7.5	4.3	0.4	12.2
1976	215.9	8.2	4.2	0.5	12.9
1977	218.1	7.7	4.6	0.4	12.7
1978 (6)	220.5	8.1	5.0	0.3	13.4
1979 (6)	223.0	7.8	4.8	0.4	13.0
1980 (6)	225.6	8.0	4.5	0.3	12.8
1981 (6)	227.7	7.8	4.8	0.3	12.9
1982 (6)	229.9	7.7	4.3	0.3	12.3
1983 (6)	232.0	8.0	4.8	0.3	13.1
1984 (6)	234.8	8.5	4.9	0.3	13.7
1985 (6)	237.0	9.0	5.1	0.3	14.4
1986 (6)	239.4	9.0	5.4	0.3	14.7
1987 (6)	241.5	*10.0	5.1	0.3	*15.4

(1) Resident population for 1910 to 1929 and civilian resident population for 1930 to date.

(2) Fresh and frozen fish consumption from 1910 to 1928 is estimated. Beginning in 1973, data include consumption of artificially cultivated catfish.

(3) Canned fish consumption for 1911 to 1920 is estimated. Beginning in 1921, it is based on production reports, packer stocks, and foreign trade statistics for individual years.

(4) Cured fish consumption for 1910 to 1928 is estimated.

(5) Data for 1909 estimated based on the 1908 census and foreign trade data.

(6) Domestic landings data used in calculating these data are preliminary. *Record.

Note:--These consumption figures refer only to consumption of fish and shellfish entering commercial channels, and they do not include data on consumption of recreationally caught fish and shellfish which since 1970 is estimated to be between 3 to 4 pounds (edible meat) per person annually. The figures are calculated on the basis of raw edible meat, i.e. excluding bones, viscera, shells, etc. U.S. Department of Agriculture (USDA) consumption purchased in retail stores. USDA estimates the net edible weight to be about 70-95 percent of the retail weight, depending on the cut and type of meat. From 1970 through 1980 data, were revised to reflect the results of the 1980 census.

U.S. CONSUMPTION

U.S. ANNUAL PER CAPITA CONSUMPTION OF CANNED FISHERY PRODUCTS, 1968-87

Year	Salmon	Sardines	Tuna	Shellfish	Other	Total
				Pounds		
1968.	.7	.4	2.4	.5	.3	4.3
1969.	.7	.4	2.4	.5	.2	4.2
1970.	.7	.4	2.5	.5	.4	4.5
1971.	.7	.4	2.4	.5	.3	4.3
1972.	.7	.4	2.9	.5	.4	4.9
1973.	.4	.5	3.1	.5	.5	5.0
1974.	.3	.4	3.1	.5	.4	4.7
1975.	.3	.2	2.9	.5	.4	4.3
1976.	.3	.3	2.8	.4	.4	4.2
1977.	.5	.3	2.8	.6	.4	4.6
1978 (1). . .	.6	.3	3.3	.5	.3	5.0
1979 (1). . .	.5	.3	3.2	.5	.3	4.8
1980 (1). . .	.5	.3	2.9	.5	.3	4.5
1981 (1). . .	.5	.4	3.1	.5	.3	4.8
1982 (1). . .	.5	.3	2.7	.4	.4	4.3
1983 (1). . .	.5	.2	3.1	.6	.4	4.8
1984 (1). . .	.6	.2	3.2	.4	.5	4.9
1985 (1). . .	.5	.3	3.3	.5	.5	5.1
1986 (1). . .	.5	.3	3.6	.4	.6	5.4
1987 (1). . .	.4	.3	3.5	.5	.4	5.1

(1) Preliminary. Note:--From 1970 through 1980, data were revised to reflect the results of the 1980 census.

U.S. ANNUAL PER CAPITA CONSUMPTION OF CERTAIN FISHERY ITEMS, 1968-87

Year	Fillets and steaks (1)	Sticks and portions	Shrimp, all preparations
		Pounds (2)	
1968.	1.9	1.3	1.4
1969.	2.0	1.6	1.3
1970.	2.2	1.7	1.5
1971.	2.0	1.6	1.4
1972.	2.3	1.8	1.4
1973.	2.5	2.0	1.4
1974.	2.1	1.8	1.5
1975.	2.4	1.8	1.4
1976.	2.5	2.0	1.5
1977.	2.5	2.0	1.6
1978 (3).	2.7	2.2	1.5
1979 (3).	2.7	*2.2	1.3
1980 (3).	2.6	1.9	1.4
1981 (3).	2.7	1.8	1.5
1982 (3).	2.7	1.7	1.5
1983 (3).	2.9	1.8	1.7
1984 (3).	3.0	1.8	1.9
1985 (3).	*3.2	1.8	2.0
1986 (3).	3.2	1.8	2.2
1987 (3).	3.2	1.7	*2.3

(1) Data include groundfish and other species. Data do not include blocks, but fillets could be made into blocks from which sticks and portions could be produced.
(2) Product weight of fillets and steaks and sticks and portions, edible (meat) weight of shrimp.
(3) Domestic landings data used in calculating these data are preliminary.
*Record.
Note:--From 1970 through 1980, data were revised to reflect the results of the 1980 census.

PER CAPITA

U.S. USE

Per capita use of commercial fish and shellfish is based on the supply of fishery products, both edible and nonedible (industrial), on a round weight equivalent basis, without considering beginning or ending stocks, defense purchases, or exports (see page 65).

Per capita use figures are not comparable with per capita consumption data (see page 80). Per capita consumption figures represent edible (for human use) meat weight consumption rather than round weight consumption. In addition, per capita consumption includes allowances for beginning and ending stocks and exports, whereas the use does not include such allowances.

Per capita use is derived by using total population including U.S. Armed Forces overseas. The per capita consumption is derived by using civilian resident population.

U.S. ANNUAL PER CAPITA USE OF COMMERCIAL FISH AND SHELLFISH, 1954-87

Year	Total population including armed forces overseas July 1	Total U.S. supply (1)	Per capita utilization		
			Commercial landings	Imports	Total
	Million persons	Million pounds	Pounds		
1954.	163.0	7,593	29.2	17.4	46.6
1955.	165.9	7,121	29.0	13.9	42.9
1956.	168.9	7,569	31.2	13.6	44.8
1957.	172.0	7,164	27.9	13.8	41.7
1958.	174.9	7,526	27.1	15.9	43.0
1959.	177.8	8,460	28.8	18.8	47.6
1960.	180.7	8,223	27.3	18.2	45.5
1961.	183.7	9,570	28.2	23.9	52.1
1962.	186.5	10,408	28.7	27.1	55.8
1963.	189.2	11,434	25.6	34.8	60.4
1964.	191.9	12,031	23.7	39.0	62.7
1965.	194.3	10,535	24.6	29.6	54.2
1966.	196.6	12,469	22.2	41.2	63.4
1967.	198.7	13,991	20.4	50.0	70.4
1968.	200.7	17,381	20.7	65.9	86.6
1969.	202.7	11,847	21.4	37.0	58.4
1970.	205.1	11,474	24.0	31.9	55.9
1971.	207.7	11,804	24.1	32.7	56.8
1972.	209.9	13,849	22.9	43.1	66.0
1973.	211.9	10,378	22.9	26.1	49.0
1974.	213.9	9,875	23.2	23.0	46.2
1975.	216.0	10,164	22.6	24.5	47.1
1976.	218.0	11,593	24.7	28.5	53.2
1977.	220.2	10,652	23.9	24.4	48.3
1978 (2). . .	222.6	11,509	27.1	24.6	51.7
1979 (2). . .	225.1	11,831	27.9	24.7	52.6
1980 (2). . .	227.7	11,357	28.5	21.4	49.9
1981 (2). . .	229.8	11,353	26.0	23.4	49.4
1982 (2). . .	232.1	12,011	27.5	24.3	51.8
1983 (2). . .	234.2	12,352	27.5	25.2	52.7
1984 (2). . .	237.0	12,552	27.2	25.8	53.0
1985 (2). . .	239.3	15,061	26.2	36.8	63.0
1986 (2). . .	241.6	14,368	25.0	34.5	59.5
1987 (2). . .	243.8	15,744	28.3	36.3	64.6

(1) Data include U.S. commercial landings and imports of both edible and nonedible (industrial) fishery products on a round-weight basis. "Total supply" is not adjusted for beginning and ending stocks, defense purchases, or exports.

(2) Domestic landings data used in calculating these data are preliminary.

Note:--From 1970 through 1980, population and per capita utilization data were revised to reflect the results of the 1980 census.

WORLD CONSUMPTION

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 1982-84 AVERAGE

Region and country	Estimated live weight equivalent	
	Kilograms	Pounds
North America:		
Canada	20.5	45.2
United States	19.1	42.1
Caribbean:		
Antigua	26.0	57.3
Bahamas	14.1	31.1
Barbados	34.0	75.0
British Virgin Islands	25.1	55.3
Cayman Islands	34.3	75.6
Cuba	20.1	44.3
Dominica	19.2	42.3
Dominican Republic	6.6	14.6
Grenada	16.5	36.4
Guadeloupe	49.2	108.5
Haiti	3.4	7.5
Jamaica	17.0	37.5
Martinique	47.5	104.7
Montserrat	10.5	23.1
Netherland Antilles	18.2	40.1
St. Christopher-Nevis	33.1	73.0
Saint Lucia	29.9	65.9
St. Vincent	11.2	24.7
Trinidad-Tobago	16.1	35.5
Turks Caicos	13.6	30.0
Latin America:		
Argentina	5.7	12.6
Belize	7.9	17.4
Bolivia	1.8	4.0
Brazil	6.2	13.7
Chile	18.9	41.7
Colombia	3.3	7.3
Costa Rica	2.8	6.2
Ecuador	13.9	30.6
El Salvador	1.4	3.1
French Guiana	36.4	80.1
Guatemala	0.5	1.1
Guyana	28.4	62.6
Honduras	1.0	2.2
Mexico	9.9	21.8
Nicaragua	1.0	2.2
Panama	14.4	31.7
Paraguay	1.1	2.4
Peru	20.5	45.2
Suriname	20.6	45.4
Uruguay	11.3	24.9
Venezuela	12.4	27.3
Europe:		
Albania	1.4	3.1
Austria	6.5	14.3
Belgium and Luxembourg	18.8	41.4
Bulgaria	8.6	19.0
Czechoslovakia	4.6	10.1
Denmark	51.7	114.0
Fed. Republic of Germany	9.3	20.5
Finland	34.5	76.1
France	24.5	54.0
German Democratic Republic	14.3	31.5
Greece	17.4	38.4
Hungary	4.7	10.4
Europe - Continued:		
Iceland	88.9	196.0
Ireland	13.2	29.1
Italy	14.3	31.5
Malta	11.5	25.4
Netherlands	10.6	23.4
Norway	45.2	99.6
Poland	17.4	38.4
Portugal	36.5	80.5
Romania	9.2	20.3
Spain	33.1	73.0
Sweden	29.3	64.6
Switzerland	11.5	25.4
United Kingdom	17.7	39.0
Yugoslavia	3.4	7.5
USSR	27.2	60.0
Near East:		
Afghanistan	0.1	0.2
Bahrain	18.9	41.7
Cyprus	10.1	22.3
Egypt	5.5	12.1
Iran	1.2	2.6
Iraq	1.5	3.3
Israel	14.2	31.3
Jordan	4.0	8.8
Kuwait	6.0	13.2
Lebanon	0.5	1.1
Libya	5.8	12.8
Oman	19.1	42.1
Qatar	12.3	27.1
Saudi Arabia	8.9	19.6
Sudan	1.4	3.1
Syria	1.5	3.3
Turkey	7.7	17.0
United Arab Emirates	28.8	63.5
Yemen Arab Republic	3.1	6.8
Yemen (Aden)	25.1	55.3
Far East:		
Bangladesh	7.5	16.5
Brunei	38.4	84.7
Burma	14.7	32.4
Cambodia	9.1	20.1
China	4.9	10.8
Hong Kong	53.4	117.7
India	3.1	6.8
Indonesia	12.6	27.8
Japan	74.5	164.2
Laos	5.1	11.2
Macao	24.9	54.9
Malaysia	44.1	97.2
Mongolia	1.0	2.2
Nepal	0.2	0.4
North Korea	39.3	86.6
Pakistan	1.8	4.0
Philippines	35.7	78.7
Republic of Korea	44.4	97.9
Singapore	35.7	78.7
Sri Lanka	15.6	34.4
Thailand	22.3	49.2
Vietnam	12.0	26.5

See note at end of table.

(Continued)

WORLD CONSUMPTION

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 1982-84 AVERAGE - Continued

Region and country	Estimated live weight equivalent	
	Kilograms	Pounds
Africa:		
Algeria	3.3	7.3
Angola	8.0	17.6
Benin	7.2	15.9
Botswana	2.5	5.5
Burkina	1.5	3.3
Burundi	2.2	4.9
Cameroon	8.8	19.4
Cape Verde	28.0	61.7
Central African Republic	5.3	11.7
Chad	16.9	37.3
Comoros	10.4	22.9
Congo (Brazaville)	33.3	73.4
Equatorial Guinea	19.9	43.9
Ethiopia	0.1	0.2
Gambia	17.7	39.0
Ghana	18.9	41.7
Guinea	4.9	10.8
Guinea-Bissau	2.7	6.0
Ivory Coast	17.1	37.7
Kenya	4.7	10.4
Lesotho	2.9	6.4
Liberia	15.7	34.6
Madagascar	5.2	11.5
Malawi	9.2	20.3
Mali	8.0	17.6
Mauritius	14.0	30.9
Morocco	6.6	14.6
Mozambique	4.0	8.8
Namibia	22.5	49.6
Niger	1.3	2.9
Nigeria	11.5	25.4
Republic of South Africa	9.6	21.2
Reunion	22.7	50.0
Rwanda	0.2	0.4
Sao Tome	37.0	81.6
Senegal	20.3	44.8
Sychelles	44.0	97.0
Sierra Leone	17.9	39.5
Somalia	2.5	5.5
Swaziland	0.1	0.2
Tanzania	11.5	25.4
Togo	12.0	26.5
Tunisia	8.7	19.2
Uganda	12.8	28.2
Zaire	6.4	14.1
Zambia	10.8	23.8
Zimbabwe	2.1	4.6
Oceania:		
Australia	16.0	35.3
Cook Islands	48.3	106.5
Fiji	44.2	97.4
French Polynesia	33.4	73.6
Kirabati	68.9	151.9
New Caledonia	23.3	51.4
New Zealand	12.3	27.1
Paupa New Guinea	15.1	33.3
Solomon Islands	60.9	134.3
Tonga	28.0	61.7
Vanuatu	32.2	71.0
Western Samoa	42.6	93.9
World	12.2	26.9

Note:--Data for most countries are tentative. Aquatic plants are include where applicable.

Source:--Food and Agriculture Organization of the United Nations (FAO) Yearbook of Fishery Statistics; vol. 62, Rome.

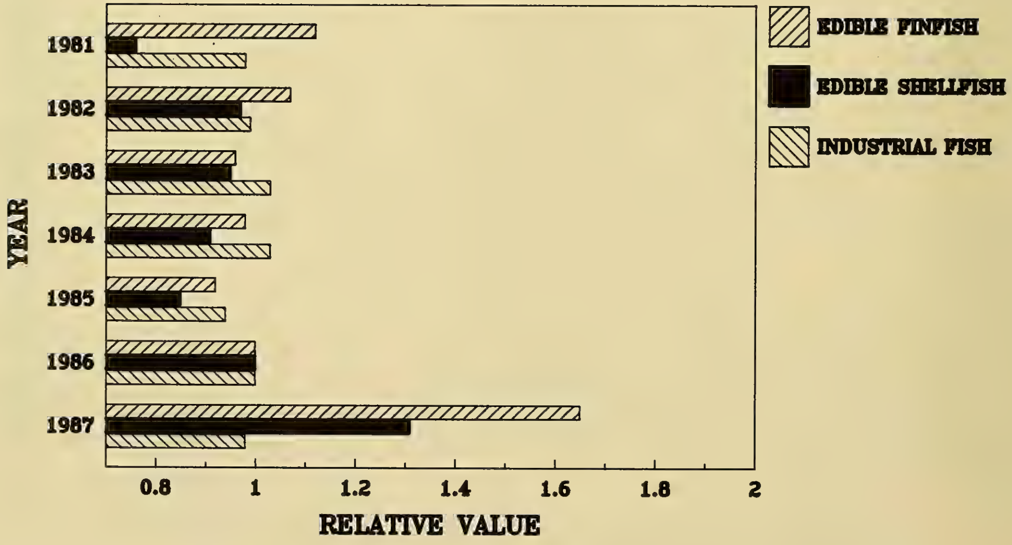
The procedure for calculating the Index of Exvessel Prices for all fish and shellfish was reviewed and modified in 1986. Major changes in the U.S. fishing industry have occurred since the index was originally designed. The result was that the "market basket" or group of species used to calculate the index was no longer representative of the price trends for all fish and shellfish. The index has been recalculated with a new market basket and 1986 as the base year. The result is a recalculated index for 1981-86.

In the table that follows, the exvessel price for any given year was obtained by dividing total value by total quantity as reported in the catch by species or distance from shore tables. The index for each species or group was obtained by multiplying the current annual price by the total quantity caught in 1986 (the base year). That number was then divided by the 1986 value to obtain the final index:

$$\frac{\text{(Current price X 1986 quantity)}}{\text{1986 Annual Value}} = \text{Index}$$

Each index number calculated for years other than the base year of 1986 measures price changes from the reference period (1986) which equals 1.00. A species of fish that sold for $0.75 a pound in 1981 and a $1.00 a pound in 1986 would have an index of 0.75 in 1981. In 1987, if the price of the same species increases 5 percent to $1.05, the index in 1987 would be 1.05.

INDEXES OF EXVESSEL PRICES
1981 - 1987
(1986 = 1.00)



INDEXES OF EXVESSEL PRICES FOR FISH AND SHELLFISH, BY YEARS, 1981-87
(1986=100)

SPECIES	1981	1982	1983	1984	1985	1986	1987
GROUNDFISH:							
COD	1.37	1.44	1.16	1.11	1.09	1.00	1.65
HADDOCK	0.40	0.50	0.59	0.71	0.94	1.00	1.00
ATLANTIC POLLOCK	0.89	0.87	0.68	0.63	0.62	1.00	1.63
ALASKA POLLOCK	1.40	1.18	0.87	0.90	0.93	1.00	1.72
FLOUNDERS	1.50	1.55	1.53	1.63	1.09	1.00	3.05
TOTAL GROUNDFISH	1.39	1.36	1.20	1.25	1.02	1.00	2.28
HALIBUT	0.75	0.81	0.84	0.50	0.59	1.00	1.09
SEA HERRING	0.53	0.75	1.05	0.62	1.08	1.00	1.08
SALMON:							
CHINOOK	1.11	1.11	0.78	1.05	0.97	1.00	1.22
CHUM	1.12	1.12	1.08	0.99	0.98	1.00	1.27
PINK	2.10	1.10	1.21	1.22	1.15	1.00	1.62
RED	0.59	0.62	0.49	0.59	0.70	1.00	1.10
COHO	1.19	1.25	0.84	1.14	1.11	1.00	1.81
TOTAL SALMON	0.91	0.82	0.67	0.79	0.84	1.00	1.25
SWORDFISH	0.74	0.90	0.87	0.94	0.88	1.00	1.17
TUNA:							
ALBACORE	1.69	1.28	1.14	1.16	1.00	1.00	1.45
BLUEFIN	1.25	1.24	3.15	3.65	1.99	1.00	5.98
SKIPJACK	1.57	1.47	1.22	1.17	0.97	1.00	1.67
YELLOWFIN	1.45	1.39	1.28	1.23	1.05	1.00	1.96
TOTAL TUNA	1.50	1.41	1.31	1.29	1.05	1.00	1.96
TOTAL EDIBLE FINFISH	1.12	1.07	0.96	0.98	0.92	1.00	1.65
CLAMS:							
HARD	0.71	0.84	0.75	0.85	0.77	1.00	1.09
OCEAN QUAHOG	0.81	0.90	0.88	0.88	0.88	1.00	0.95
SOFT	0.55	0.58	0.66	0.80	0.87	1.00	0.85
SURF	0.94	0.96	0.82	0.90	0.99	1.00	0.85
TOTAL CLAMS	0.78	0.85	0.78	0.87	0.88	1.00	0.96
CRABS:							
BLUE	0.76	0.80	0.91	0.88	0.89	1.00	1.14
DUNGENESS	0.63	0.73	0.98	1.15	1.07	1.00	1.01
KING	0.52	0.86	0.77	0.68	0.76	1.00	0.99
SNOW	0.58	1.39	1.16	0.94	0.79	1.00	1.14
TOTAL CRABS	0.60	1.01	0.95	0.86	0.84	1.00	1.07
AMERICAN LOBSTER	0.88	0.88	0.92	0.99	0.95	1.00	1.12
OYSTERS	0.71	0.73	0.70	0.87	0.82	1.00	1.21
SCALLOPS:							
BAY	0.41	0.44	0.62	0.55	0.50	1.00	0.61
CALICO	0.50	0.54	0.65	0.29	0.52	1.00	0.57
SEA	0.75	0.75	1.12	1.09	0.97	1.00	0.85
TOTAL SCALLOPS	0.73	0.73	1.07	1.03	0.93	1.00	0.82
SHRIMP:							
GULF & S. ATLANTIC	0.80	1.08	1.14	0.91	0.83	1.00	0.97
OTHER	0.77	0.88	1.24	0.94	0.85	1.00	1.36
TOTAL SHRIMP	0.80	1.07	1.14	0.91	0.83	1.00	0.99
TOTAL EDIBLE SHELLFISH	0.76	0.97	0.95	0.91	0.85	1.00	1.01
TOTAL EDIBLE FISH & SHELLFISH	0.93	1.02	0.96	0.95	0.89	1.00	1.31
INDUSTRIAL FISH:							
MENHADEN	0.98	0.99	1.03	1.03	0.94	1.00	0.98
ALL FISH	0.93	1.02	0.96	0.95	0.89	1.00	1.30

SUMMARY OF 1987 VALUE ADDED, MARGINS, AND CONSUMER EXPENDITURES FOR COMMERCIAL MARINE FISHERY PRODUCTS IN THE UNITED STATES (1)

SECTOR OR TYPE OF ACTIVITY	PURCHASES OF FISHERY INPUTS	MARK-UP OF FISHERY INPUTS	TOTAL MARK-UP WITHIN SECTOR	VALUE ADDED AS % OF TOTAL MARK-UP	VALUE ADDED WITHIN SECTOR	VALUE OF SALES BY SECTOR	VALUE ADDED CONTRIBUTION	OFFSHORE FLEET & EXPORTED FISHERY PRODUCTS
	Thousand Dollars	Percentage of Fishery Inputs	Thousand Dollars	Percentage	Thousand Dollars	Thousand Dollars	Percentage of GNP Contribution	Thousand Dollars
Domestic Harvest:								
Edible	-	100.0	$3,013,772	63.03	$1,899,553	$3,013,772	11.1	-
Industrial	-	100.0	$104,425	59.82	$62,466	$104,425	0.4	-
Harvest not landed in U.S.	-	100.0	$450,471	63.42	$285,694	$450,471	1.7	$450,471
Imports, Unprocessed	$1,922,453	-	-	-	-	$1,922,453	-	-
Exports, Unprocessed	-	-	-	-	-	-	-	$897,387
Primary Wholesale and Processing	$4,143,263	101.0	$4,184,108	57.50	$2,406,165	$8,327,371	14.1	-
Imports, Processed	$3,860,218	-	-	-	-	$3,860,218	-	-
Exports, Processed	-	-	-	-	-	-	-	$762,986
Secondary Wholesale and Processing:								
Edible	$11,250,043	22.8	$2,563,583	54.90	$1,407,416	$13,813,626	8.3	-
Industrial	$174,560	22.8	$39,778	54.90	$21,838	$214,338	0.1	-
Retail Trade from Food Service	$7,076,764	177.8	$12,584,173	73.40	$9,230,873	$19,660,936	54.2	-
Retail Trade from Stores	$6,736,863	31.9	$2,149,647	80.50	$1,729,797	$8,886,509	10.1	-
TOTAL U.S. VALUE ADDED ACTIVITY:					$17,043,803		100.0	
CONSUMERS EXPENDITURES (& WHOLESALE PURCHASES OF INDUSTRIAL PRODUCTS) FOR FISHERY PRODUCTS:						$28,761,783		

(1) Includes industrial products, landings by U.S.-flag vessels at U.S. and foreign ports, and joint ventures.

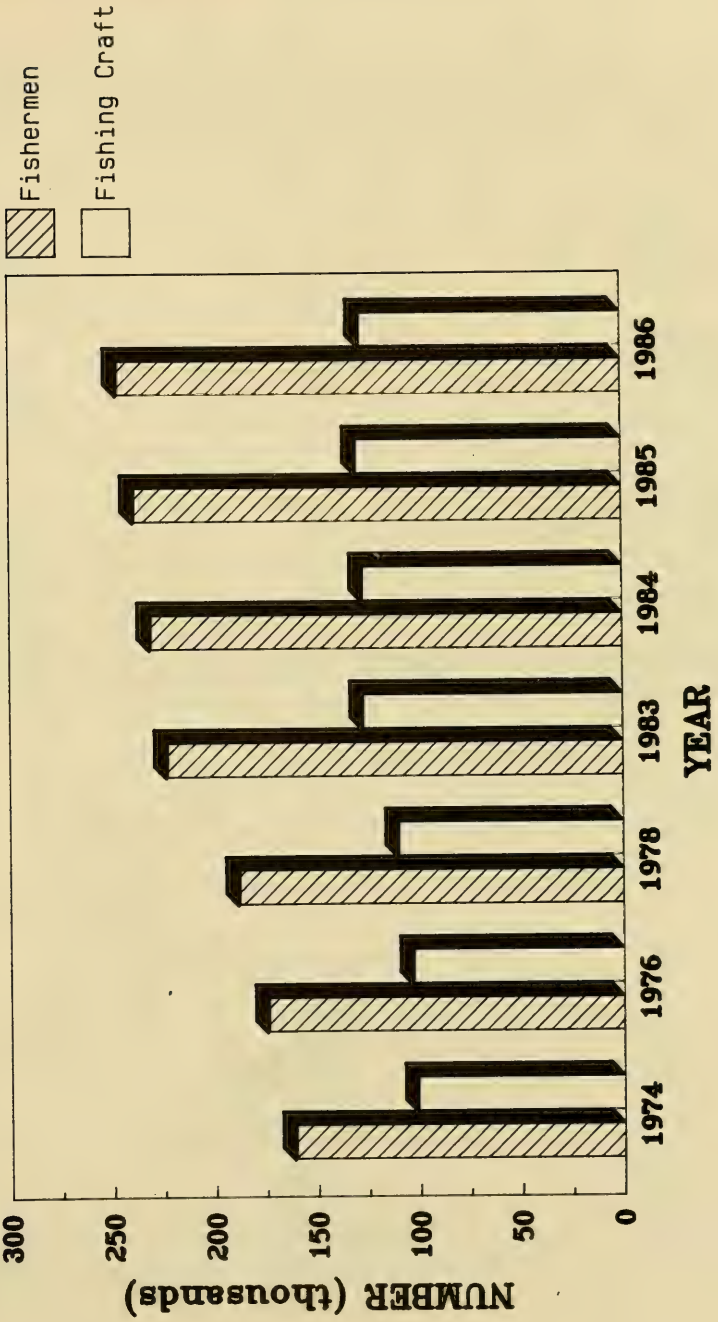
Note.— The table reports the contribution of commercial marine fishing to the national economy as measured by **margin**, **value added**, and **sales**. These measures are consistent with the Bureau of the Census definitions.

Margin or mark-up is the difference between the price paid for the product by the consumer or wholesale purchaser and the dockside or wholesale value for an equivalent weight of the product. (It is assumed that fishermen catch their fish without paying a purchase price and therefore the entire dockside or exvessel price is considered margin.)

Value added is a measure of the factors added to the total worth of a product at each stage of the production process. It is defined as the gross receipts of firms minus the cost of purchased goods and services needed to fabricate the product. Value added is thereby a measure of the value of production which eliminates double counting inherent in sales figures of firms active in the marketing channels through which goods are transformed and move to the final consumer. Gross National Product (GNP) is equal to the sum of the value added of all economic entities in the economy. Value added within a sector (e.g. commercial marine fishing) represents that sector's contribution to GNP.

Value added includes wages, salaries, interest, depreciation, rent, taxes and profit. Value added is part of the margin, but margin includes various purchased goods (e.g. containers and non-seafood ingredients) and services (e.g. transportation, insurance, repairs) not included in value added.

Annual sales is the value of seafood sales at the various maket levels. **Consumer expenditures** are the final retail value of seafood products sold through stores and food service outlets.

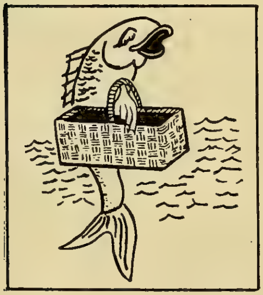


NUMBER OF FISHERMEN AND FISHING CRAFT
1974 - 1986

FISHERY EMPLOYMENT, CRAFT, AND ESTABLISHMENTS, VARIOUS YEARS, 1970-86

Item	1970	1972	1974	1976	1978(1)	1986(1)
	Number					
Persons employed:						
Fishermen	140,538	139,119	161,361	173,610	188,300	247,000
Processing and wholesaling (2)	86,813	91,268	92,118	93,609	99,446	99,956
Total	227,351	230,387	253,479	267,219	287,746	346,956
Craft used:						
Vessels (3)	13,591	14,507	15,891	16,675	18,100	38,200
Motor boats	71,570	69,795	83,436	84,445	90,200	88,400
Other boats	2,000	1,570	1,907	1,501	1,600	1,600
Total	87,161	85,872	101,234	102,621	109,900	128,200
Processors and wholesalers:						
New England States	537	500	483	503	492	728
Mid-Atlantic States	832	793	745	768	763	611
South Atlantic States	432	445	433	522	506	668
Gulf Coast States	817	796	742	726	840	1,012
Pacific States	402	223	356	362	437	399
Alaska	108	322	239	182	178	442
Inland States	564	537	487	511	266	(4) 107
Other	43	47	49	43	42	(5) 24
Total	3,735	3,663	3,534	3,617	3,524	3,991

(1) Fishermen and craft estimated. (2) Average for season. (3) Craft 5 net tons and over as documented by U.S. Coast Guard. (4) Data estimated for some Inland States. (5) A partial survey was conducted for other areas or States.



PROCESSORS AND WHOLESALERS: PLANTS AND EMPLOYMENT, 1986

STATE AND AREA	PROCESSING			WHOLESALE			TOTAL		
	PLANTS	EMPLOYMENT SEASON	AVERAGE YEAR	PLANTS	EMPLOYMENT SEASON	AVERAGE YEAR	PLANTS	EMPLOYMENT SEASON	AVERAGE YEAR
	-NUMBER-								
NEW ENGLAND:									
MAINE	103	2,274	2,213	169	446	427	272	2,720	2,640
NEW HAMPSHIRE	10	324	267	4	36	36	14	360	303
MASSACHUSSETTS	106	4,018	3,921	187	1,049	1,030	293	5,067	4,951
RHODE ISLAND	36	612	585	77	334	315	113	946	900
CONNECTICUT	5	51	48	31	135	135	36	186	183
TOTAL	260	7,279	7,034	468	2,000	1,943	728	9,279	8,977
MID-ATLANTIC:									
NEW YORK	37	499	487	166	1,293	1,275	203	1,792	1,762
NEW JERSEY	27	1,097	1,071	57	381	355	84	1,478	1,426
PENNSYLVANIA	13	1,206	1,135	13	210	210	26	1,416	1,345
DELAWARE	4	671	671	6	21	21	10	692	692
DISTRICT OF COLUMBIA	-	-	-	5	78	78	5	78	78
MARYLAND	67	2,055	1,924	68	581	547	135	2,636	2,471
VIRGINIA	95	3,298	3,095	53	395	379	148	3,693	3,474
TOTAL	243	8,826	8,383	368	2,959	2,865	611	11,785	11,248
SOUTH ATLANTIC:									
NORTH CAROLINA	106	2,283	2,067	216	736	634	322	3,019	2,701
SOUTH CAROLINA	18	341	304	82	449	368	100	790	672
GEORGIA	14	1,342	1,321	56	128	128	70	1,470	1,449
FLORIDA, EAST COAST	38	1,360	1,355	138	759	752	176	2,119	2,107
TOTAL	176	5,326	5,047	492	2,072	1,882	668	7,398	6,929
GULF:									
FLORIDA, WEST COAST	160	3,966	3,899	191	714	646	351	4,680	4,545
ALABAMA	63	1,837	1,814	28	396	396	91	2,233	2,210
MISSISSIPPI	44	2,200	1,680	35	172	166	79	2,372	1,846
LOUISIANA	162	4,583	3,920	167	1,027	954	329	5,610	4,874
TEXAS	39	1,691	1,671	123	584	563	162	2,275	2,234
TOTAL	468	14,277	12,984	544	2,893	2,725	1,012	17,170	15,709
PACIFIC:									
CALIFORNIA	55	3,627	3,619	50	1,384	1,381	105	5,011	5,000
OREGON	35	1,506	1,491	35	182	168	70	1,688	1,659
WASHINGTON	129	3,322	3,167	95	360	348	224	3,682	3,515
TOTAL	219	8,455	8,277	180	1,926	1,897	399	10,381	10,174
ALASKA (1)	442	31,244	23,000	(2)	(2)	(2)	442	31,244	23,000
INLAND AREAS: (1)									
ARKANSAS, COLORADO, IDAHO, KANSAS, MISSOURI, NEVADA, NORTH DAKOTA, OKLAHOMA, AND SOUTH DAKOTA	3	30	27	11	29	29	14	59	56
ILLINOIS	9	52	51	10	115	115	19	167	166
INDIANA	-	-	-	5	32	29	5	32	29
IOWA	5	134	134	3	5	5	8	139	139
MICHIGAN	10	99	92	8	72	72	18	171	164
MINNESOTA	7	77	77	-	-	-	7	77	77
OHIO	4	24	24	6	24	16	10	48	40
WISCONSIN	16	152	152	10	44	40	26	196	192
TOTAL	54	568	557	53	321	306	107	889	863
OTHER AREAS OR STATES: (3)									
GUAM, HAWAII, AND NORTHERN MARIANAS	3	28	28	14	84	84	17	112	112
AMERICAN SAMOA, AND PUERTO RICO	7	11,698	11,698	(2)	(2)	(2)	7	11,698	11,698
TOTAL	10	11,726	11,726	14	84	84	24	11,810	11,810
GRAND TOTAL	1,872	87,701	77,008	2,119	12,255	11,702	3,991	99,956	88,710

(1) DATA FOR ALASKA AND SOME INLAND STATES HAVE BEEN ESTIMATED. (2) DATA NOT AVAILABLE. (3) A PARTIAL SURVEY WAS CONDUCTED FOR OTHER AREAS OR STATES.

PLANTS PRODUCING CANNED FISHERY PRODUCTS, INDUSTRIAL FISHERY PRODUCTS, AND FISH FILLETS AND STEAKS, 1987

Area and State	Canned fishery products	Industrial fishery products	Fish fillets and steaks	Total plants exclusive of duplication
	Number			
New England:				
Maine	13	4	32	49
Massachusetts	-	1	60	61
New Hampshire	-	-	3	3
Rhode Island	-	-	16	16
Connecticut	1	-	2	3
Total	14	5	113	132
Mid-Atlantic:				
New York	4	1	22	26
New Jersey	11	2	2	15
Pennsylvania	3	-	-	3
Delaware	2	-	-	2
Maryland	1	1	-	2
Virginia	2	5	1	8
Total	23	9	25	56
South Atlantic and Gulf:				
North Carolina	3	4	19	25
South Carolina	1	-	13	14
Georgia	-	2	1	3
Florida	1	4	29	33
Alabama	-	2	1	3
Mississippi	3	2	1	6
Louisiana	8	17	11	36
Texas	1	-	-	1
Total	17	31	75	121
Pacific:				
Washington	12	3	20	35
Oregon	3	3	13	18
California	2	5	17	23
Total	17	11	50	76
Alaska	51	2	4	57
Inland States:				
Iowa	-	1	3	4
Michigan	1	-	-	1
Minnesota	-	-	2	2
Ohio	1	-	-	1
Wisconsin	-	1	8	9
Total	2	2	13	17
American Samoa	2	2	-	2
Puerto Rico	5	4	-	5
Grand total	131	66	280	466

FISHERY PRODUCTS AND ESTABLISHMENTS INSPECTED IN CALENDAR YEAR 1987

Region	Edible fishery products						
	Establishments (1)		Amount inspected				
	SIFE (2)	PUFI (3)	Grade A (4)	PUFI (4)	No mark (5)	Lot (6)	Total
	- - Number - -		- - - - - - - - - Thousand pounds - - - - - - - - -				
Northeast............	2	40	62,303	168,688	7,026	31,650	269,668
Southeast............	4	57	18,115	24,969	12,996	12,248	68,328
West.................	3	27	32,623	5,283	13,874	43,257	95,037
Total, 1987........	8	124	113,041	198,941	33,897	87,155	433,034
Total, 1986........	7	120	128,409	192,003	37,656	84,294	442,361

(1) These establishments are inspected under contract and certified as meeting U.S. Department of Commerce (USDC) regulations for construction and maintenance of facilities and equipment, processing techniques, and employment practices.

(2) Fish processing establishments approved for sanitation under the Sanitary Inspected Fish Establishment Service (SIFE). Products are not processed under inspection.

(3) Sanitarily inspected fish establishments processing fishery products under USDC inspection.

(4) Products processed under USDC inspection in inspected establishments and labeled with USDC inspection mark as "Packed Under Federal Inspection" (PUFI) or "U.S. Grade A."

(5) Products processed under inspection in inspected establishments but bearing no USDC inspection mark.

(6) Lot inspected products checked for quality and condition at the time of examination and located in processing plants, warehouses, cold storage facilities, or terminal markets anywhere in the United States.

Source:--NMFS, Office of Trade and Industry Services, F/TS4.

THE MAGNUSON FISHERY CONSERVATION AND MANAGEMENT ACT

The Magnuson Fishery Conservation and Management Act (Magnuson Act), Public Law 94-265 as amended, provides for the conservation and management of all fishery resources within the U.S. Exclusive Economic Zone (EEZ) except highly migratory species of tuna. It also provides for fishery management authority over continental shelf resources and anadromous species beyond the EEZ, except when they are found within a foreign nation's territorial sea or fishery conservation zone (or equivalent), to the extent that such sea or zone is recognized by the United States.

The EEZ extends from the seaward boundary of each of the coastal states (3 nautical miles from shore for all but two States) to 200 nautical miles from shore. The seaward boundaries of Texas, Puerto Rico, and the Gulf Coast of Florida are 3 marine leagues (9 nautical miles).

GOVERNING INTERNATIONAL FISHERY AGREEMENTS

Under the Magnuson Act, the U.S. Department of State, with cooperation from the National Oceanic and Atmospheric Administration (NOAA) of the U.S. Department of Commerce, negotiates Governing International Fishery Agreements (GIFAs) with foreign countries wishing to fish within the EEZ. After a GIFA is signed, it is transmitted by the President to the Congress for review.

FOREIGN FISHING PERMITS

Vessels of foreign nations which have GIFAs with the United States may fish in the EEZ for species managed under the Magnuson Act after receiving an allocation of that species and a valid fishing permit. After a GIFA is in force, a foreign nation must submit a permit application to the U.S. Department of State for each vessel to fish in the EEZ. Permit applications must also be made for foreign vessels to receive U.S. harvested fish in the EEZ, and to conduct any other operation in support of the catching, taking, or harvesting of fish in the EEZ. The U.S. Department of State provides copies of the applications to the Congress, the U.S. Coast Guard, the appropriate Regional Fishery Management Councils, and to the Assistant Administrator for Fisheries of the National Marine Fisheries Service (NMFS) with its recommendations. The NMFS also receives recommendations from the Regional Fishery Management Councils and the U.S. Coast Guard, as well as the general public.

The Assistant Administrator for Fisheries reviews recommendations bearing on approval of each application and, after consulting with the U.S. Department of State and the U.S. Coast Guard, may approve an application in whole or in part. Any conditions and restrictions on the approval of an application are sent to the foreign nation through the U.S. Department of State, and must be accepted by the nation before a permit is issued.

FEES

Foreign nations engaged in fisheries subject to U.S. jurisdiction are charged permit fees, poundage fees, a foreign fee surcharge, and an observer fee. An incremental fee may also be charged, which is a percentage of the poundage fee from any country found not to be cooperating in the conservation and development of U.S. fishery resources.

The permit fees in 1987 recovered costs of issuing permits, based upon a standard administrative charge of $184 for each foreign permit application.

Poundage fees are charged for the fish harvested by foreign vessels. Poundage fees vary in relation to the exvessel values of the species harvested by a nation's vessels. Poundage fees are not currently charged for U.S. harvested fish received by foreign vessels. Collections from 1987 poundage fees were expected to continue to decrease as foreign fishing falls to very low levels.

The surcharge is to capitalize a fund to compensate U.S. fishermen operating in the EEZ whose vessels or gear are lost or damaged because of conflicts with foreign vessels. The surcharge on poundage and permit fees was waived in 1987 because the fund was fully capitalized.

The observer fee covers U.S. costs including salary, per diem, transportation, and overhead for U.S. observers on board foreign vessels. The fee is computed on the basis of actual observer trips.

No incremental fees were paid in 1987.

FOREIGN ALLOCATIONS

The total allowable level of foreign fishing (TALFF), if any, for any fishery subject to the exclusive fishery management authority of the United States is that portion of the optimum yield (OY) of such fishery that will not be harvested by vessels of the United States

Each assessment of OY and each assessment of the anticipated U.S. harvest is reviewed during each fishing season. Adjustments to TALFFs are based on updated information relating to status of stocks, estimated and actual performance of domestic and foreign fleets, and other relevant factors.

FMPs and PMPs

Under the Magnuson Act, eight Regional Fishery Management Councils are charged with preparing Fishery Management Plans (FMPs) for the fisheries needing management within their areas of authority. After the Councils develop FMPs which cover domestic and foreign fishing efforts, the FMPs are submitted to the Secretary of Commerce for approval and implementation. The Department, through NMFS agents and the U.S. Coast Guard, is responsible for enforcing the law and regulations.

The Secretary of Commerce is also empowered to prepare plans. Where no FMP exists, Preliminary Fishery Management Plans (PMPs), which only cover foreign fishing efforts, are prepared by the Secretary for each fishery for which a foreign nation requests a permit. The Secretary is also empowered to produce an FMP for any fishery that a

Council has not duly produced. In this latter case, the Secretary's plan covers domestic and foreign fishing.

As of December 31, 1987, six Preliminary Fishery Management Plans (PMPs) were in effect, many of which have been amended since first being implemented.

- Atlantic Billfishes and Sharks
- Foreign Trawl Fisheries of the Northwest Atlantic
- Hake Fisheries of the Northwestern Atlantic
- Pacific Billfishes and Oceanic Sharks
- Bering Sea Herring
- Bering Sea Snails

Fishery Management Plans (FMPs)

Under section 304 of the Magnuson Act, all Council prepared FMPs must be reviewed by the Secretary of Commerce. After FMPs have been approved under section 304 of the Magnuson Act, they are implemented by federal regulations, under section 305 of the Act. During 1987, two new FMPs were adopted by Councils, submitted for Secretarial review and approved. The Tanner Crab FMP was repealed by the Secretary of Commerce. As of December 31, 1987, there are 27 fishery management plans in place. The FMPs are listed below, and those marked with an asterisk (*) were approved and implemented during 1987, After implementation, many FMPs are amended by the Council and submitted for approval under the same Secretarial review process as new FMPs. Many of the Plans listed have been amended since initial implementation.

- American Lobster
- Northeast Multispecies
- Atlantic Mackerel, Squid, and Butterfish
- Atlantic Sea Scallops
- Atlantic Surf Clams and Ocean Quahogs fisheries
- Swordfish
- Gulf and South Atlantic Spiny Lobster
- Caribbean Shallow Water Reef Fish
- Gulf and South Atlantic Corals
- Gulf of Mexico Reef Fish
- Gulf of Mexico Shrimp
- Gulf of Mexico Stone Crab
- Coastal Migratory Pelagics
- Caribbean Spiny Lobster
- Snapper/Grouper
- Northern Anchovy
- Alaskan King Crab
- Commercial and Recreational Salmon
- High Seas Salmon
- Pacific Groundfish
- Gulf of Alaska Groundfish
- Bering Sea and Aleutian Islands Groundfish
- Western Pacific Spiny Lobster
- Western Pacific Precious Corals
- Western Pacific Bottomfish and Seamount Groundfish
- Gulf of Mexico Red Drum(*)
- Western Pacific Pelagics(*)

During 1987, 364 regulatory actions were processed via the Federal Register to implement FMP fishery management actions and rules for foreign fishing. This number includes hearing and meeting notices.

REGIONAL FISHERY MANAGEMENT COUNCILS

Council	States	Telephone Number	Executive Director
NEW ENGLAND	(Maine, New Hampshire, Massachusetts, Rhode Island, and Connecticut)	* 617-231-0422	Douglas G. Marshall Suntaug Office Park 5 Broadway (Rte.1) Saugus, MA 01906
MID-ATLANTIC	(New York, New Jersey, Delaware, Pennsylvania Maryland, and Virginia)	302-674-2331	John C. Bryson, Federal Bldg., Room 2115 300 So. New St. Dover, DE 19901
SOUTH ATLANTIC	(North Carolina, South Carolina, Georgia, and Florida)	803-571-4366	Robert K. Mahood Southpark Bldg., Suite 306 1 Southpark Circle, Charleston, SC 29407
GULF OF MEXICO	(Texas, Louisiana, Mississippi, Alabama, and Florida)	813-228-2815	Wayne E. Swingle Lincoln Center, Suite 881 5401 W. Kennedy Blvd., Tampa, FL 33609
CARIBBEAN	(Virgin Islands and the Commonwealth of Puerto Rico)	809-753-4926	Omar Munoz-Roure, Banco de Ponce Bldg. Suite 1108 Hato Rey, PR 00918
PACIFIC	(California, Washington, Oregon, and Idaho)	503-221-6352	Larence D. Six Metro Center, Suite 420 2000 S.W. First Avenue Portland, OR 97201
NORTH PACIFIC	(Alaska, Washington, and Oregon)	907-271-2809	Clarence G. Pautzke 605 W. 4th Ave., Rm. 306 P.O. Box 103136 Anchorage, AK 99510
WESTERN PACIFIC	(Hawaii, American Samoa, Guam, and the Northern Marianas Islands)	808-523-1368	Kitty M. Simonds 1164 Bishop St., Room 1405 Honolulu, HI 96813

* Area code will change to 508 effective July 16, 1988.

OPTIMUM YIELD, DOMESTIC ANNUAL HARVEST, RESERVE, TALFF, AND FOREIGN FISHING ALLOCATION:
BY COUNTRY AND REGION, 1987

	North Atlantic (1), (2)	Washington Oregon, and California (3)	Gulf of Alaska	Eastern Bering Sea and Aleutian Islands (4)	Total Alaska	Grand Total (1)
	- - - - - - - - - -	- - - - - - - -	Metric tons, round weight	- - - - -	- - - - -	- - - - -
Optimum yield (OY)...	513,780	217,000	221,277	2,003,000	2,224,277	2,955,057
DAH..................	356,400	137,250	221,277	1,820,833	2,042,110	2,535,760
DAP...............	263,460	16,000	165,447	336,723	502,170	781,630
JVP...............	80,340	121,250	55,830	1,484,110	1,539,940	1,741,530
Reserve..............	3,000	4,400	0	46,471	46,471	53,871
TALFF................	152,380	75,350	0	135,696	135,696	363,426
COUNTRY ALLOCATIONS						
EEC						
Italy..............	541	0	0	0	0	541
Netherlands........	10,866	0	0	0	0	10,866
German Democratic Republic...........	21,858	0	0	0	0	21,858
Japan................	0	0	0	104,446	104,446	104,446
People's Republic of China...........	0	3,200	0	1,350	1,350	4,550
Poland...............	0	53,800	0	0	0	53,800
Republic of Korea....	0	2,500	0	29,900	29,900	32,400
Total................	33,265	59,500	0	135,696	135,696	228,461

(1) DAH does not equal JVP + DAP. Optimum Yield does not equal DAH+RESERVES+TALFF.
(2) Optimum Yield includes initial optimum yield for some species-see North Atlantic table.
(3) Optimum Yield includes Pacific whiting, shortbelly rockfish, and jack mackerel; allocations include only Pacific whiting - see Washington, Oregon, and California table.
(4) Includes 3,000 mt of snails.

Notes:--DAH=Domestic Annual Harvest; DAP=Domestic Annual Processing; JVP=Joint Venture Processing; TALFF=Total Allowable Level of Foreign Fishing.

Pacific Seamount Region closed to Foreign and Domestic Fishing.

Source:--NMFS, Office of Trade and Industry Services, F/TS2.

OPTIMUM YIELD, DOMESTIC ANNUAL HARVEST, RESERVE, TALFF, AND FOREIGN FISHING ALLOCATIONS: NORTH ATLANTIC, BY SPECIES AND COUNTRY, 1987 (1)

Item	Red hake (2)	Silver hake (2)	Sharks, except Dogfish	Loligo Squid(3)	Illex Squid(3)	Atlantic mackerel (3), (4)	Butterfish (3)	River herring	Other finfish	Total (4)
	Metric tons, round weight									
Max Optimum yield (OY) . .	22,000	43,000	6,150	44,000	30,000	N/A	16,000	8,000	247,000	-
ABC	-	-	-	37,000	22,500	294,000	16,000	-	-	-
Initial Optimum Yield.	22,000	43,000	6,150	10,129	9,738	154,676	13,087	8,000	247,000	513,780
DAH.	11,500	29,600	5,000	10,000	9,700	69,600	13,000	7,800	200,200	356,400
DAP.	5,500	7,600	5,000	9,010	6,550	29,000	13,000	7,800	180,000	263,460
JVP.	6,000	22,000	-	990	3,150	28,000	-	-	20,200	80,340
Reserve.	3,000	-	-	-	-	-	-	-	-	3,000
TALFF.	5,500	13,400	1,150	129	38	85,076	87	200	46,800	152,380
Country allocations										
EEC:										
Italy	5	10	0	1	1	500	2	2	20	541
Netherlands . .	25	50	0	10	1	10,500	20	60	200	10,866
German Democratic Republic	25	50	0	10	3	21,500	20	50	200	21,858
Total. . .	55	110	0	21	5	32,500	42	112	420	33,265

(1) OY=Optimum Yield; ABC=Allowable Biological Catch; DAH=Domestic Annual Harvest; and TALFF=Total Allowable Level of Foreign Fishing; Initial Optimum Yield = DAH & TALFF or max optimum yield.
(2) DAH does not equal JVP + DAP or Optimum Yield does not equal DAH + JVP + Reserve.
(3) All species based on January 1 to December 31 fishing year.
(4) Includes 12,600 metric tons for recreational catch.

NA:--Not available.

Source:--NMFS, Office of Trade and Industry Services, F/TS2.

OPTIMUM YIELD, DOMESTIC ANNUAL HARVEST, RESERVE, TALFF, FOREIGN FISHING ALLOCATION AND BYCATCH ALLOWANCES
WASHINGTON, OREGON, AND CALIFORNIA, BY SPECIES AND COUNTRY, 1987 (1)

	Species Available for Directed Foreign Fishing				Bycatch Allowances (2)					
	Pacific whiting	Short-belly rockfish	Jack mackerel	Total	Pacific ocean perch	Other rockfish (3)	Flat-fish	Sable-fish	Jack mackerel	Other species
	Metric tons, round weight									
Optimum yield (OY)...	195,000	10,000	12,000	217,000	-	-	-	-	-	-
DAH.................	131,250	6,000	0	137,250	-	-	-	-	-	-
DAP...............	15,000	1,000	0	16,000	-	-	-	-	-	-
JVP...............	116,250	5,000	0	121,250	-	-	-	-	-	-
Reserve.............	0	2,000	2,400	4,400	-	-	-	-	-	-
TALFF...............	63,750	2,000	9,600	75,350	-	-	-	-	-	-
% BYCATCH LIMITS (2)	-	-	-	-	0.062	0.738	0.100	0.173	3.000	0.500
COUNTRY ALLOCATIONS										
Poland..............	53,800	0	0	53,800	33	397	54	93	1,614	269
Rep. of Korea........	2,500	0	0	2,500	2	11	2	3	45	269
People's Republic of China..........	3,200	0	0	3,200	2	24	3	6	96	8
Total..........	59,500	0	0	59,500						

(1) TALFF = Total Allowance Level of Foreign Fishing; DAH=Domestic Annual Harvest; DAP=Domestic Annual Processing; and JVP=Joint Venture Processing.

(2) Bycatch allowances are the maximum amounts of bycatch that can be taken by foreign vessels and are based on the bycatch limits which are percentages applied to each nation's Pacific whiting allocation.

(3) Includes shortbelly rockfish and widow rockfish.

Source:--NMFS, Office of Trade and Industry Services, F/TS2.

OPTIMUM YIELD, DOMESTIC ANNUAL HARVEST, RESERVE, TALFF, AND FOREIGN FISHING ALLOCATIONS: EASTERN BERING SEA AND ALEUTIAN ISLANDS, BY SPECIES AND COUNTRY, 1987 (1)

Item	Alaska pollock	Snail (meats)	Flatfish				Pacific cod
			Turbot	Arrowtooth flounder	Yellowfin sole	Other	
	Metric tons, round weight						
TAC.	1,288,000	3,000	20,000	9,795	187,000	148,300	280,000
DAH.	1,283,300	0	15,280	4,193	182,000	89,015	186,705
DAP.	193,197	0	15,213	830	100	17,043	91,767
JVP.	1,089,803	0	67	3,363	181,900	71,972	94,938
Reserve.	-	0	-	-	-	-	-
TALFF.	5,000	3,000	1,750	5,602	5,000	37,080	73,295
Country allocations							
People Republic of China	50	0	1	5	138	1,051	70
Japan	3,950	3,000	1,739	5,497	1,905	11,786	72,225
Rep. of Korea . .	1,000	0	10	100	2,957	24,243	1,000
Total	5,000	3,000	1,750	5,602	5,000	37,080	73,295

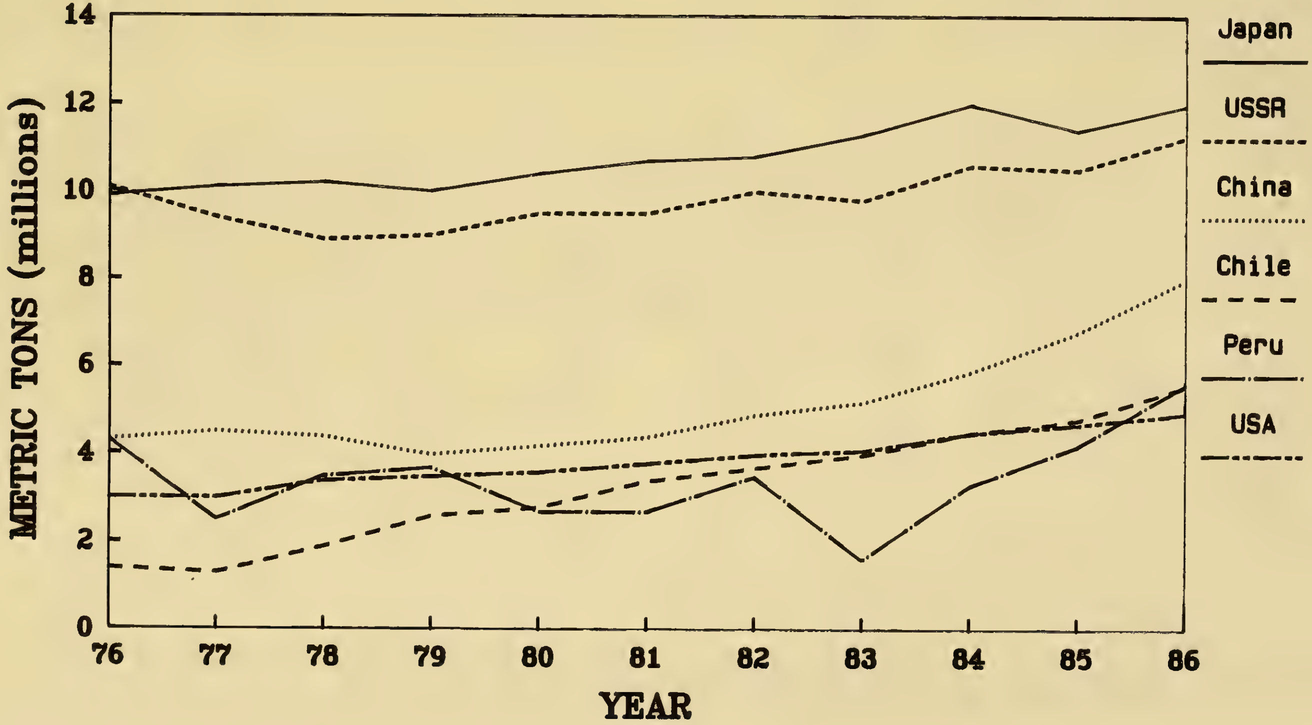
Item	Rockfishes		Sablefish	Atka Mackerel	Squid	Other species	Total
	Pacific ocean perch	Other					
	Metric tons, round weight						
TAC.	11,025	1,880	7,700	30,800	500	15,000	2,003,000
DAH.	9,892	1,746	7,660	30,790	52	10,500	1,820,833
DAP.	9,209	1,383	7,227	250	4	500	336,723
JVP.	683	363	433	30,540	48	10,000	1,484,110
Reserve.	-	-	-	-	-	-	46,471
TALFF.	17	9	40	10	393	4,500	135,696
Country allocations							
People Republic of China . . .	2	1	1	1	5	25	1,350
Japan.	13	7	30	6	308	3,980	104,446
Rep. of Korea. .	2	1	9	3	80	495	29,900
Total.	17	9	40	10	393	4,500	135,696

(1) TAC=Total Allowable Catch; DAH=Domestic Annual Harvest; DAP=Domestic Annual Processing; JVP=Joint Venture Processing; and TALFF=Total Allowable Level of Foreign Fishing.
Source:--NMFS, Office of Trade and Industry Services, F/TS2.

WORLD COMMERCIAL CATCH BY LEADING COUNTRIES

(LIVE WEIGHT)

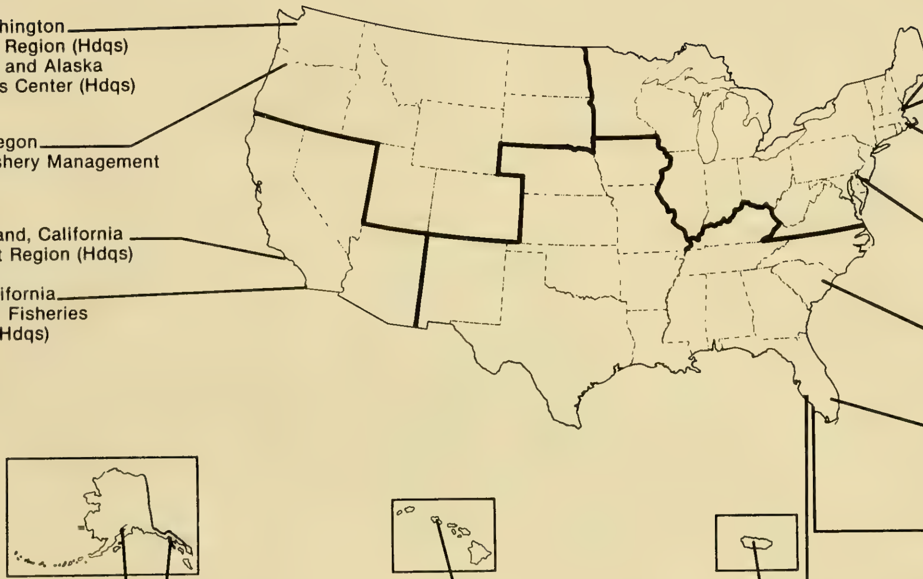
1976 - 1986



U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NMFS Regional Offices
NMFS Fisheries Centers
Regional Fishery Management Councils

HDQS Locations



Seattle, Washington
Northwest Region (Hdqs)
Northwest and Alaska
Fisheries Center (Hdqs)

Portland, Oregon
Pacific Fishery Management
Council

Terminal Island, California
Southwest Region (Hdqs)

La Jolla, California
Southwest Fisheries
Center (Hdqs)

Anchorage, Alaska
North Pacific Fishery
Management Council

Juneau, Alaska
Alaska Region (Hdqs)

Honolulu, Hawaii
Western Pacific Fishery
Management Council

Hato Rey, Puerto Rico
Caribbean Fishery
Management Council

Gloucester, Massachusetts
Northeast Region (Hdqs)

Saugus, Massachusetts
New England Fishery
Management Council

Woods Hole, Massachusetts
Northeast Fisheries Center
(Hdqs)

Dover, Delaware
Mid-Atlantic Fishery
Management Council

Charleston, South Carolina
South Atlantic Fishery
Management Council

Miami, Florida
Southeast Fisheries
Center (Hdqs)

St. Petersburg, Florida
Southeast Region (Hdqs)

Tampa, Florida
Gulf of Mexico Fishery
Management Council

UNITED STATES DEPARTMENT OF COMMERCE

14th and E Streets, NW
Washington, D.C. 20230

Mail routing code		Telephone number
--	Secretary of Commerce C. William Verity	202-377-2112
A	National Oceanic and Atmospheric Administration William E. Evans	202-377-3567

NATIONAL MARINE FISHERIES SERVICE

1825 Connecticut Avenue, NW
(Universal Building, South)
Washington, D.C. 20235

Mail routing code		Telephone number
F	Assistant Administrator for Fisheries James E. Douglas, Jr. (Acting)	202-673-5450
Fx1	Deputy Assistant Administrator for Fisheries	202-673-5450
Fx2	Executive Director	202-673-5450
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F/EN	Office of Enforcement	202-673-5295
F/CM	Office of Fisheries Conservation and Management	202-673-5263
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F/CM3	Recreational and Interjurisdictional Fisheries Division	202-673-5263
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F/RE1	Fisheries Statistics Division	202-673-5335
F/RE2	Data Management Division	202-673-5330
F/RE3	Prediction, Analysis and Monitoring Division	202-673-5362
F/PR	Office of Protected Species	202-673-5355
F/PR1	Permits and Documentation Division	202-673-5348
F/PR2	Protected Species Management Division	202-673-5349
F/PR3	Habitat Policy and Conservation Division	202-673-5498
F/PR4	Conservation Science Division	202-673-5362
F/TS	Office of Trade and Industry Services	202-673-5260
F/TS1	Financial Services Division	202-673-5424
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F/TS4	Inspection Services Division	202-673-5875

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NATIONAL MARINE FISHERIES SERVICE

Washington, D.C. 20235

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F/IA	Office of International Affairs	202-673-5279
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LA3-F	Constituent Affairs Staff - Fisheries	202-673-5429
LA5-F	Office of Congressional Affairs - Fisheries	202-673-5434
PAF	Office of Public Affairs - Fisheries	202-673-5445
GCF	Office of General Counsel - Fisheries	202-673-5206
CSEP	Estuarine Programs Office (NOAA)	202-673-5243

REGIONAL OFFICES

Location	Telephone number	
Gloucester, MA	*617-281-3600	Northeast Region, 14, Elm St., Federal Bldg. Gloucester, MA 01930
Woods Hole, MA	*617-548-5123	Northeast Science and Research Woods Hole, MA 02543
Woods Hole, MA	*617-548-5123	Woods Hole Laboratory Woods Hole, MA 02543
Narragansett, RI	401-789-9326	Narragansett Laboratory, Route 7A, P.O. Box 522A Narragansett, RI 02882
Milford, CT	203-878-2459	Milford Laboratory Milford, CT 06460
Highlands, NJ	201-872-0200	Sandy Hook Laboratory, P.O. Box 428 Highlands, NJ 07732
Oxford, MD	301-226-5193	Oxford Laboratory Oxford, MD 21654
Gloucester, MA	617-281-3600 Ext. 237	Gloucester Laboratory, Emerson Ave. Gloucester, MA 01930
Washington, DC	202-357-2550	National Systematics Laboratory 10th and Constitution Ave., N.W. Washington, DC 20560
Narragansett, RI	401-789-9326	Atlantic Environmental Group, Route 7A, P.O. Box 522A Narragansett, RI 02882

*Area code will change to 508 effective July 16, 1988.

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NATIONAL MARINE FISHERIES SERVICE

REGIONAL OFFICES - Continued

Location	Telephone number	
St. Petersburg, FL	813-893-3141	Southeast Region, 9450 Koger Blvd. St. Petersburg, FL 33702
Miami, FL	305-361-4284	Southeast Science and Research, 75 Virginia Beach Dr. Miami, FL 33149
Miami, FL	305-361-4225	Miami Laboratory, 75 Virginia Beach Dr. Miami, FL 33149
Pascagoula, MS	601-762-4591	Mississippi Laboratories, 3209 Frederick St. P.O. Drawer 1207 Pascagula, MS 39567
Panama City, FL	904-234-6541	Panama City Laboratory, 3500 Delwood Beach Rd. Panama City, FL 32407
Galveston, TX	409-766-3500	Galveston Laboratory, 4700 Avenue U Galveston, TX 77550
Charleston, SC	803-762-1200	Charleston Laboratory, 217 Fort Johnson Rd. P.O. Box 12607 Charleston, SC 29412
Beaufort, NC	919-728-4595	Beaufort Laboratory, Pivers Island, P.O. Box 570 Beaufort, NC 28516
Seattle, WA	206-526-6150	Northwest Region, 7600 Sand Point Way, N.E. BIN C15700, Bldg. 1 Seattle, WA 98115
Seattle, WA	206-526-4000	Northwest Science and Research, 7600 Sand Point, N.E. BIN C15700, Bldg. 4 Seattle, WA 98115
Terminal Island, CA	213-514-6196	Southwest Region, 300 South Ferry St. Terminal Island, CA 90731
La Jolla, CA	619-546-7000	Southwest Science and Research 8604 La Jolla Shores Dr., P.O. Box 271 La Jolla, CA 92038
Honolulu, HI	808-943-1221	Honolulu Laboratory, 2570 Dole St., P.O. Box 3830 Honolulu, HI 96812
Tiburon, CA	415-435-3149	Tiburon Laboratory, 3150 Paradise Dr. Tiburon, CA 94920
Monterey, CA	408-646-3311	Pacific Fisheries Environmental Group P.O. Box 831 Monterey, CA 93942

(Continued)

NATIONAL MARINE FISHERIES SERVICE

REGIONAL OFFICES - Continued

Location	Telephone number	
Juneau, AK	907-586-7221	Alaska Region, Federal Bldg., Room 453 709 West Ninth St., P.O. Box 1668 Juneau, AK 99802
Seattle, WA	206-526-4000	Alaska Science and Research, 7600 Sand Point Way, N.E. BIN C15700, Bldg. 4 Seattle, WA 98115
Kodiak, AK	907-487-4961	Kodiak Investigations, P.O. Box 1638 Kodiak, AK 99615
Auke Bay, AK	907-789-6000	Auke Bay Laboratory, P.O. Box 210155 Auke Bay, AK 99821

REFERRAL DIRECTORY - WASHINGTON, D.C. OFFICES

FEES AND PERMITS -- 202-673-5319

Foreign fishing
Joint ventures

FINANCIAL SERVICES -- 202-673-5424

Compensation for loss of gear
Construction, vessels (Tax Deferral Program)
Insurance - vessel seizure by foreign governments
Loans and loan guarantees

FISHERY MANAGEMENT OPERATIONS -- 202-673-5263

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Fishery management plans
Fisheries regulations
State grants

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Exports/Imports licenses
Saltonstall-Kennedy (S-K) grants
Tariffs
Trade issues

INTERNATIONAL FISHERIES -- 202-673-5300

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Foreign fisheries (general)

LAW ENFORCEMENT AND FINES -- 202-673-5295

PROTECTED SPECIES -- 202-673-5348

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Marine Mammal Protection Act (general)
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Fishing methods
Resource abundance

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Market news reports (general)
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Recreational fisheries

UTILIZATION RESEARCH -- 202-673-5371

Botulism and ciguatera poisoning
Nutrition and quality of fishery products
Safety and product standards
Seafood inspection and identity

NATIONAL MARINE FISHERIES SERVICE

NATIONAL FISHERY STATISTICS OFFICES

City	Telephone number	Name and address
		NORTHEAST REGION
NEW ENGLAND		
Portland	207-780-3322	Robert C. Morrill, U.S. Custom House, 312 Fore St., Room 17, P.O. Box 425, DTS, Portland, ME 04112
Rockland	207-594-5969	Peter S. Marckoon, Federal Bldg., 21 Limerock St., Room 207, P.O. Box 708, Rockland, ME 04841
Boston	*617-223-8015	Paul Sheahan 408 Atlantic Ave., Room 141 Boston, MA 02210
Gloucester	*617-281-3600 Ext. 304	Vito P. Giacalone, Gloucester Lab., Emerson Ave., Gloucester, MA 01930
New Bedford	*617-999-2452	Dennis E. Main, U.S. Custom House, 2nd and Williams Sts., New Bedford, MA 02740
New Bedford	*617-994-9200	Paul O. Swain, Address same as above
Provincetown	*617-487-0868	William D. Sprague, Post Office Bldg., Commercial St., P.O. Box 91, Provincetown, MA 02657
(1)Woods Hole	*617-548-5123 Ext. 264	Ronnee L. Schultz, Northeast Fisheries Center, Water St., Woods Hole, MA 02543
Newport	401-847-3115	Lori Lathan, Post Office Bldg., Thames St., Newport, RI 02840
Pt. Judith	401-783-7797	Susan Murphy, 7310 Great Island Rd., Rm. 203, P.O. Box 547, Pt. Judith, RI 02882
MIDDLE ATLANTIC		
Riverhead	516-727-0707	Emerson C. Hasbrouck, Jr., 518-B E. Main St., P.O. Box 873, Riverhead, L.I., NY 11901
Patchogue	516-475-6988	Fred C. Blossom, 22 W. Main St., P.O. Box 606, Patchogue, L.I., NY 11772
Toms River	201-349-3533	Eugene A. LoVerde, 26 Main St., P.O. Box 143, Toms River, NJ 08753
Cape May	609-884-2113	Patricia A. Yoos, 1400 Texas Ave., P.O. Box 624, Cape May, NJ 08204
CHESAPEAKE		
Oxford	301-226-5420	William E. Brey, Oxford Laboratory, P.O. Box 338, Oxford, MD 21654
Greenbackville	804-824-4725	George E. Ward, Biological Lab., Franklin City, Greenbackville, VA 23356
Hampton	804-723-3369	William N. Kelly, 55-57 West Queensway Mall, P.O. Box 436, Hampton, VA 23669
		SOUTHEAST REGION
SOUTH ATLANTIC		
Beaufort	919-728-4168	Kenneth C. Harris, Pivers Island, Beaufort Laboratory Beaufort, NC 28516
Manteo	919-473-5929	Glenwood P. Montgomery, Marine Resource Center, P.O. Box 967, Manteo, NC 27954
Charleston	803-762-1200	John C. DeVane, Jr., 217 Ft. Johnson Rd., P.O. Box 12607, James Island, SC 29412
Brunswick	912-265-7080	Daniel G. Foster, Federal Bldg., 801 Gloucester St., Room 104, Brunswick, GA 31520
New Smyrna Beach	904-427-6562	Claudia Dennis, 200 Canal St., P.O. Box 566, New Smyrna Beach, FL 32069
(1)Miami	305-361-4462	J. Ernest Snell, 75 Virginia Beach Dr., Miami, FL 33149
West Palm Beach	305-837-5234	Howard C. Schaefer, 727 Belvedere Road, West Palm Beach, FL 33405

*Area code will changes to 508 effective July 16, 1988.

(1) Regional headquarters for statistics offices.

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NATIONAL MARINE FISHERIES SERVICE

NATIONAL FISHERY STATISTICS OFFICES – Continued

City	Telephone number	Name and Address
GULF		
Key West	305-294-1921	Edward J. Little, Jr., Office & Custom House Bldg., P.O. Box 269, Key West, FL 33040
Fort Myers	813-334-4364	Tom Herbert, Federal Bldg. P.O. Box 217, Fort Myers, FL 33902
St. Petersburg	813-893-3151	Betty J. Guisinger, 9450 Koger Blvd., St. Petersburg, FL 33702
Apalachicola	904-653-9500	Richard Dumas, Post Office Bldg., P.O. Drawer 189, Apalachicola, FL 32320
Panama City	904-234-6541	Deborah Fable, 3500 Delwood Beach Rd., Panama City, FL 32401
Bayou La Batre	205-824-4149	Horace M. Flowers, D&H Furniture Bldg., Second Floor, 93 S. Wintzell Ave., P.O. Box 91, Bayou La Batre, AL 36501
Pascagoula	601-762-4591	Hermes G. Hague, 3209 Frederic St., SEFC Pascagoula Lab., P.O. Drawer 1207, Pascagoula, MS 39567
Cameron	318-762-3887	Vacant, Sabine National Wildlife Refuge, State Highway 27, M.R.H. Box 107, Hackberry, LA 70645
Golden Meadow	504-475-7072	Gary J. Rousse, 1614 So. Bayou Dr., Rm. 211, P.O. Box 623, Golden Meadow, LA 70357
Houma	504-872-3321	Kathleen M. Hebert, Post Office Bldg., 425 Lafayette St., Room 128, Houma, LA 70360
New Iberia	318-365-1558	Linda F. Picou, 327 S. Iberia St., Suite 8, New Iberia, LA 70560
New Orleans	504-589-6153	Thomas R. Dawley, World Trade Center, 2 Canal St., Suite 400-H, New Orleans, LA 70130
Aransas Pass	512-758-3787	Mary Magee, Landry Net Shop, Conn Brown Harbor, P.O. Box 1776, Aransas Pass, TX 78336
Brownsville	512-831-4050	Edie Lopez, Harbor Masters Bldg., Shrimp Basin, P.O. Box 467, Brownsville, TX 78520
Freeport	409-233-4551	Richard A. Allen, Brazosport Savings Center, P.O. Box 2533, Freeport, TX 77541
Galveston	409-766-3705	Margot Hightower, 4700 Avenue U Galveston, TX 77550
Port Arthur	409-724-4303	Madeline Bailey, Federal Bldg., 2875 75th St., Room 14-C, Room 113, Port Arthur, TX 77640
		SOUTHWEST REGION
(1)Terminal Island	213-514-6674	Patricia J. Donley, 300 S. Ferry St., P.O. Box 3266, Terminal Island, CA 90731
Honolulu	808-955-8831	Doyle E. Gates, Honolulu Lab., P.O. Box 3830, Honolulu, HI 96822
		NORTHWEST REGION
(1)Seattle	206-526-6128	John K. Bishop, 7600 Sand Point Way, N.E., Bldg., 1, Bin C 15700, Seattle, WA 98115
		ALASKA REGION
(1)Juneau	907-586-7228	Janet E. Smoker, 709 W. Ninth St., Federal Bldg., P.O. Box 1668, Juneau, AK 99801

(1) Regional headquarters for statistics offices.

PUBLICATIONS AVAILABLE FROM NATIONAL MARINE FISHERIES SERVICE, NOAA

SCIENTIFIC PUBLICATIONS

Information on formal scientific publications by NMFS (such as NMFS journals and Technical Reports) may be obtained from the Scientific Publications Office (F/NWR1), 7600 Sand Point Way N.E., Bin C-15700, Seattle, WA 98115. Telephone: 206-526-6107.

CURRENT FISHERY STATISTICS (CFS) SERIES

The reports listed below are in the Current Fishery Statistics (CFS) series. They are statistical bulletins on marine recreational fishing and commercial fishing, and on the manufacture and commerce of fishery products. For further information or to obtain a subscription to these publications, contact the office shown below:

NOAA, National Marine Fisheries Service
National Fishery Statistics Program (F/RE1)
Washington, D.C. 20235
202-673-5335

Marine recreational fishing publications are released annually. If you wish a copy of the following publications, check the designated space ( ) and return to the office shown above.

( ) Marine Recreational Fishery Statistics Survey, Pacific Coast, 1986 C.F.S. No. 8393

( ) Marine Recreational Fishery Statistics Survey, Atlantic and Gulf Coasts, 1986 C.F.S. No. 8392

( ) Marine Recreational Fishery Statistics Survey, Pacific Coast, 1985 C.F.S. No. 8328

( ) Marine Recreational Fishery Statistics Survey, Atlantic and Gulf Coasts, 1985 C.F.S. No. 8327

( ) Marine Recreational Fishery Statistics Survey, Atlantic and Gulf Coasts, 1983-1984 C.F.S. No. 8326

( ) Marine Recreational Fishery Statistics Survey, Pacific Coast, 1983-1984 C.F.S. No. 8325

( ) Marine Recreational Fishery Statistics Survey, Atlantic and Gulf Coasts, 1981-1982 C.F.S. No. 8324

( ) Marine Recreational Fishery Statistics Survey, Pacific Coast, 1981-1982 C.F.S. No. 8323

( ) Marine Recreational Fishery Statistics Survey, Atlantic and Gulf Coasts, 1979 (Revised)-1980 C.F.S. No. 8322

( ) Marine Recreational Fishery Statistics Survey, Pacific Coast, 1979-1980 C.F.S. No. 8321

The bulletins shown below cover freezings and holdings, the production of various processed products, and the U.S. foreign trade in fishery products. The annual data shown in the publications are later published in Fishery Statistics of the United States. To order Fishery Statistics of the United States from the Government Printing Office (GPO) or the National Technical Information Service (NTIS), see the two pages that follow.

The following are available annually:

( ) FF Frozen Fishery Products

( ) MF-1 Processed Fishery Products:
(Includes (MF 1-5) Canned Fishery Products; Production of Fish Fillets and Steaks; Fish Sticks, Fish Portions, and Breaded Shrimp; and Industrial Fishery Products.)

( ) MF-6 Import and Exports of Fishery Products

The following publication is only available quarterly; monthly data will be available in the annual Processed Fishery Products (MF-1):

( ) Fish Meal and Oil

LIBRARY INFORMATION

Library information is available from NOAA's library, 6009 Executive Blvd., Rockville, MD 20852. Telephone: 301-443-8334.

ALL THE NEWS ABOUT FISHERIES

PUBLICATIONS

PUBLICATIONS AVAILABLE FROM U.S. GOVERNMENT PRINTING OFFICE

TECHNICAL REPORTS

Stock Number	
003-009-00522-1	International Trade Administration Report, "1987 U.S. Industrial Outlook" - a a one-year forecast on the U.S. fishing industry plus one and five-year forecasts on other U.S. industries. January 1988 . . .$24.00

STATISTICAL REPORTS

003-020-00157-2	Fisheries of the United States, 1987

ANGLER'S GUIDE TO THE UNITED STATES PACIFIC COAST

003-020-00113-1	Marine Fish, Fishing Grounds and Facilities. . .$8.50

MARINE LIFE POSTERS

(printed on washable non-glare plasticized paper)

003-020-00027-4	Marine Fishes of the North Atlantic. . .$5.50
003-020-00051-7	Marine Fishes of the North Pacific. . .$5.50
003-020-00055-0	Marine Fishes of the California Current and adjacent waters . . .$5.50
003-020-00065-7	Marine Fishes of the Gulf and South Atlantic. . .$5.50
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Washington, DC 20402

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PUBLICATIONS

PUBLICATIONS AVAILABLE FROM NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPARTMENT OF COMMERCE

MARINE RECREATIONAL FISHING

1970 Salt-Water Angling Survey, PB-265416.

Determination of the Number of Commercial and Non-Commercial Recreational Boats in the United States, Their Use, and Selected Characteristics, COM-74-11186.

Participation in Marine Recreational Fishing:
Northeastern United States, 1973-74, COM-75-10655.
Southeastern United States, 1974, PB-273160.

Marine Recreational Fishery Statistics Survey Pacific Coast, 1979-80, PB84-199652

COMMERCIAL FISHERIES

Fisheries of the United States is a preliminary report with historical comparisons on the Nation's fishing, fish processing, and foreign trade in fishery products.

Year	Accession number	Year	Accession number
1966	COM-75-10662	1977	PB-282741
1967	COM-75-10663	1978	PB-297083
1968	COM-75-10664	1979	PB-80-201593
1969	COM-75-10665	1980	PB-81-241648
1970	COM-71-50081	1981	PB-82-215542
1971	COM-75-10666	1982	PB-83-216473
1972	COM-73-50644	1983	PB-84-195148
1973	COM-74-50546	1984	PB-86-144953
1974	COM-75-10862	1985	PB-87-143145
1975	PB-25-3966	1986	PB-88-164132
1976	PB-268662		

Fishery Statistics of the United States (Statistical Digest) is a final report on the Nation's commercial fisheries showing more detail than Fisheries of the United States.

Year	Accession number	Year	Accession number
1939	COM-75-11265	1959	COM-75-11062
1940	COM-75-11266	1960	COM-75-11063
1941	COM-75-11267	1961	COM-75-11064
1942	COM-75-11268	1962	COM-75-11065
1943	COM-75-11269	1963	COM-75-11066
1944	COM-75-11270	1964	COM-75-11067
1945	COM-75-11271	1965	COM-75-11068
1946	COM-75-11272	1966	PB-246429
1947	COM-75-11273	1967	PB-246430
1948	COM-75-11274	1968	COM-72-50249
1949	COM-75-11275	1969	COM-75-10887
1950	COM-75-11056	1970	COM-75-10643
1952	COM-75-11054	1972	COM-75-11430
1953	COM-75-11055	1973	PB-262058
1954	COM-75-11057	1974	PB-277796
1955	COM-75-11058	1975	PB-300625
1956	COM-75-11059	1976	PB-81-163438
1957	COM-75-11060	1977	PB-84-192038
1958	COM-75-11061		

STATE LANDINGS

Maine, 1946-76, PB-271296/1977-79, PB-81-128258.
Massachusetts, 1943-76, PB-275866/1977-79, PB-81-143182.
Rhode Island, 1954-77, PB-287627/1978-79, PB-81-157158.
New York, 1954-76, PB-275449/1977-79, PB-81-134546.
New Jersey, 1952-76, PB-275696/1977-79 PB-81-159048.
Maryland, 1960-76, PB-300636/1977-79 PB-81-159030.
Virginia, 1960-76, PB-300637/1977-79 PB-82-151960.
North Carolina, 1955-76, PB-288928/1977-79 PB-82-151978.
South Carolina, 1957-76, PB-289405/1977-79 PB-81-163198.
Georgia, 1956-77, PB-289814/1977-78 PB-81-157166.
Florida, 1950-76, PB-292068.
Alabama 1950-77, PB-80-121262/1978 PB-82-168071.
Mississippi, 1951-77, PB-80-121270/1978 PB-82-169079.
Louisiana, 1957-77, PB-300583/1978 PB-82-168063.
Texas, 1949-77, PB-300603/1978-79 PB-82-169004.
Shrimp, 1956-76, PB-80-124696/1977-78 PB-82-156183.
Gulf Coast Shrimp Data, 1958-76, PB-80-126899/1977 PB-82-170390.

OTHER PUBLICATIONS

Processors and Wholesale Dealers of Fishery Products in U.S. (excludes Alaska) 1986 (shows firm name, address, and major products), PB-88-164330.

Processors and Wholesalers of Alaska Fishery Products, 1978, PB-299246.

Directory of Aquaculture in the Southeast, 1976, PB-272-1512.

Revenues, Costs, and Returns from Vessel Operation in Major U.S. Fisheries, PB-265275.

Seafood Plant Sanitation, PB-271161.

List of Fishery Cooperatives in U.S. 1980-81, PB-82-107830.

Economic Impacts of the U.S. Commercial Fishing Industry, COM-75-11354.

A Survey of Fish Purchases by Socio-Economic Characteristics - Annual Report, COM-71-00647.

National Marine Fisheries Service: Seafood Consumption, 1973-1974, (a magnetic tape) PB-294725.

National Marine Fisheries Service: Species/Mercury Data (a magnetic tape) PB-283265.

The Maryland Blue Crab and Oyster Processing Industries: The Effects of Government Regulations, PB-82-159054.

To purchase the reports listed on this page, call or write:

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ATTN: Order Desk
5285 Port Royal Road
Springfield, VA 22161
703-487-4650

PUBLICATIONS

The National Fisheries Institute, a national trade association of seafood processors, brokers, importers, and buyers, in cooperation with and under contract to the National Marine Fisheries Service, has prepared a series of economic profiles of the U.S. seafood processing industry.

These profiles will serve as a primer for regulatory and policy analysts who may not be familiar with the intricacies of seafood processing and of economic constraints facing seafood processors, who are predominately small businessmen.

They present the business world of the seafood processor from an intergrated perspective, and address the resource, harvesting, processing, and marketing practices and constraints. The text is designed for the general reader and details are given only to illustrate the complexity of the industry. A thorough treatment of many topics is intentionally avoided and technical references are kept to a minimum. However, sufficient statistical data and references are provided to support economic analyses and further study.

The following reports may be purchased by mail directly from the National Technical Information Service.

The U.S. Blue Crab Industry: An Economic Profile for Policy and Regulatory Analysts, PB-83-165704

The Maine Sardine Industry: An Economic Profile for Policy and Regulatory Analysts, PB-83-165712

The U.S. Menhaden Industry: An Economic Profile for Policy and Regulatory Analysts, PB-83-165720

The U.S. Oyster Industry: An Economic Profile for Policy and Regulatory Analysts, PB-83-166215

The U.S. Shrimp Industry: An Economic Profile for Policy and Regulatory Analysts, PB-83-166233 (includes canned shrimp, breaded shrimp, and headless/peeled shrimp).

The New England Groundfish Industry: An Economic Profile for Policy and Regulatory Analysts, PB-83-166231.

Analysis of Seafood Consumption in the U.S. 1970, 1974, 1978, and 1981
PB-86-135043

The U.S. Seafood Processing Industry: An Economic Profile for Policy and Regulatory Analysts, PB-83-199265

BASIC ECONOMIC INDICATORS

American and Spiny Lobster, 1947-73, COM-47-11587
Atlantic and Pacific Groundfish, 1932,72, COM-74-11638
Blue Crab, 1947-72, COM-74-11585
Clams, 1947-74, COM-75-11089
Halibut, 1929-72, COM-74-11583
King and Dungeness Crabs, 1947-72, COM-74-11586
Menhaden, 1946-72, COM-74-11581
Oyster, 1947-72, COM-75-10384
Salmon, 1947-72, COM-74-11710
Scallops, 1930-72, COM-74-11582
Shrimp, 1947-72, COM-74-11709
Tuna, 1947-72, COM-74-11584

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William Hosking, Coordinator
Sea Grant Advisory Service
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The National Marine Fisheries Service (NMFS) addresses trade problems affecting U.S. fishery exports in coordination with the U.S. Trade Representative, the International Trade Administration and the International Trade Commission. The activities support bilateral and multilateral trade negotiations and actions by U.S. industry under U.S. trade law. Factors affecting international trade in fisheries products are analyzed, and information provided to government and industry. Information is also obtainable on government food purchase programs. In addition, financial services are available to enable capitalization of fishing vessel construction and to compensate for gear damage.

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GLOSSARY

ANADROMOUS SPECIES. These are species of fish that mature in the ocean, and then ascend streams to spawn in freshwater. In the MFCMA, these species include, but are not limited to, Atlantic and Pacific salmons, steelhead trout, and striped bass. See 42 FR 60682, Nov. 28, 1977.

ANALOG PRODUCTS. These include imitation and simulated crab, lobster, shrimp, scallops, and other fish and shellfish products fabricated from processed fish meat (such as surimi).

BOAT, OTHER. Commercial fishing craft not powered by a motor, e.g., rowboat or sailboat, having a capacity of less than 5 net tons. See motorboat.

BREADED FISH PRODUCTS. Sticks and portions or other forms of fish or shellfish coated with a non-leavened mixture containing cereal products, flavorings, and other ingredients. Breaded products are sold raw or partially cooked.

BATTER-COATED FISH PRODUCTS. Sticks and portions or other forms of fish or shellfish coated with a batter containing a leavening agent and mixture of cereal products, flavoring, and other ingredients, and partially cooked in hot oil a short time to expand and set the batter.

BREADED SHRIMP. Peeled shrimp coated with breading. The product may be identified as fantail (butterfly) and round, with or without tail fins and last shell segment; also known as portions, sticks, steaks, etc., when prepared from a composite unit of two or more shrimp pieces, whole shrimp, or a combination of both without fins or shells.

BUTTERFLY FILLET. Two skin-on fillets of a fish joined together by the belly skin. See fillets.

CANNED FISHERY PRODUCTS. Fish, shellfish, or other aquatic animals packed in cans, jars, or other containers, which are hermetically sealed and heat-sterilized. Canned fishery products may include milk, vegetables, or other products. Most, but not all, canned fishery products can be stored at room temperature for an indefinite time without spoiling.

COMMERCIAL FISHERMAN. An individual who derives income from catching and selling living resources taken from inland or marine waters.

CONSUMPTION OF EDIBLE FISHERY PRODUCTS. Estimated amount of commercially landed fish, shellfish, and other aquatic animals consumed by the civilian population of the United States. Estimates are on an edible-weight basis and have been adjusted for beginning and ending inventories of edible fishery products. Consumption includes U.S. production of fishery products from both domestically caught and imported fish, shellfish, other edible aquatic plants, animals, and imported products; and excludes exports and purchases by the U.S. Armed Forces.

CONTINENTAL SHELF FISHERY RESOURCES. These are living organisms of any sedentary species that at the harvestable stage are either (a) immobile on or under the seabed or (b) unable to move except in constant physical contact with the seabed or subsoil of the continental shelf. The MFCMA now lists them as certain abalones, surf clam and ocean quahog, queen conch, Atlantic deep-sea red crab, dungeness crab, stone crab, king crabs, snow (tanner) crabs, American lobster, certain corals, and sponges.

CURED FISHERY PRODUCTS. Products preserved by drying, pickling, salting, or smoking. Do not include canned, frozen, irradiated, or pasteurized products. Dried products are cured by sun or air-drying; pickled or salted products are those products preserved by applying salt, or by pickling (immersing in brine or in a vinegar or other preservative solution); smoked products are cured with smoke or a combination of smoking and drying or salting.

EDIBLE WEIGHT. The edible weight of individual products as consumed.

EUROPEAN ECONOMIC COMMUNITY (EEC). Belgium and Luxembourg, Denmark, Federal Republic of Germany, Greece, France, Ireland, Italy, Netherlands, Portugal, Spain, and United Kingdom.

EXPORT VALUE. The value reported is generally equivalent to f.a.s. (free alongside ship) value at the U.S. port of export, based on the transaction price, including inland freight, insurance, and other charges incurred in placing the merchandise alongside the carrier at the U.S. port of exportation. The value excludes the cost of loading, freight, insurance and any other charges or transportation costs beyond the port of exportation.

EXVESSEL PRICE. Price received by the harvester for fish, shellfish, and other aquatic plants and animals.

"FISH AND CHIPS." This United States fisheries policy links foreign fishing privileges in the U.S. EEZ to foreign country contributions to the development of the U.S. fishing industry. These include reductions of foreign tariff and non-tariff barriers that restrict importation of fishery products, and other cooperation in advancing opportunities for fishery trade. This policy was incorporated into the foreign nation species allocation process as a matter of law by the 1980 amendments to the Magnuson Act.

FISH BLOCKS. Regular fish blocks are frozen blocks or slabs of fillets or pieces of fillets cut or sliced from fish. Minced fish blocks are frozen blocks or slabs of minced flesh produced by a meat and bone separating machine.

FISH FILLETS. The sides of fish that are either skinned or have the skin on, cut lengthwise from the backbone. Most types of fillets are boneless or virtually boneless; some may be labeled as "boneless fillets."

FISH MEAL. A high-protein animal feed supplement made by cooking, pressing, drying, and grinding fish or shellfish.

FISH OIL. An oil extracted from body (body oil) or liver (liver oil) of fish and marine mammals; mostly a byproduct of fish meal production.

FISH PORTION. A piece of fish flesh that is generally of uniform size with thickness of 3/8 of an inch or more and differs from a fish stick in being wider or of a different shape. A fish portion is generally cut from a fish block.

FISH SOLUBLES. A water-soluble protein byproduct of fish meal production. Fish solubles are generally condensed to 50 percent solids and marketed as "condensed fish solubles."

GLOSSARY

FISH STEAK. A cross-section slice cut from a large dressed fish. A steak is usually about 3/4 of an inch thick.

FISH STICK. An elongated piece of breaded fish flesh weighing not less than 3/4 of an ounce and not more than 1-1/2 ounces with the largest dimension at least three times that of the next larger dimension. A fish stick is generally cut from a fish block.

FISHING CRAFT, COMMERCIAL. Boats and vessels engaged in capturing fish, shellfish, and other aquatic plants and animals for sale.

FISHERY MANAGEMENT PLAN (FMP). A plan developed by a Regional Fishery Management Council, or the Secretary of Commerce under certain circumstances, to manage a fishery resource in the U.S. EEZ pursuant to the MFCMA.

FULL-TIME COMMERCIAL FISHERMAN. An individual who receives more than 50 percent of their annual income from commercial fishing activities, including port activity, such as vessel repair and re-rigging.

GROSS REGISTERED TONNAGE (GRT). The gross registered tonnage of a vessel is the internal cubic capacity of all space in and on the vessel that is permanently enclosed, with the exception of certain permissible exemptions. GRT is expressed in tons of 100 cubic feet.

GROUNDFISH. Broadly, fish that are caught on or near the sea floor. The term includes a wide variety of bottomfishes, rockfishes, and flatfishes. However, NMFS sometimes uses the term in a narrower sense. In import statistics shown in "Fisheries of the United States," the term applies to the following species: cod, cusk, haddock, hake, Atlantic pollock, and Atlantic Ocean perch.

IMPORT VALUE. Value of imports as appraised by the U.S. Customs Service according to the Tariff Act of 1930, as amended. It may be based on foreign market value, export value, constructed value, American selling price, etc. It generally represents a value in a foreign country, and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the merchandise to the United States.

IMPORT WEIGHT. The weights of individual products as exported, i.e., fillets, steaks, whole, headed, etc.

INDUSTRIAL FISHERY PRODUCTS. Items processed from fish, shellfish, or other aquatic plants and animals that are not consumed directly by humans. These items contain products from seaweeds, fish meal, fish oils, fish solubles, pearl essence, shark and other aquatic animal skins, and shells.

INTERNATIONAL CONVENTION FOR THE NORTHWEST ATLANTIC FISHERIES (ICNAF). This convention, which entered into force on July 3, 1950, was for the investigation, protection, and conservation of the fishery resources of the Northwest Atlantic Ocean. In 1975, there were 18 member nations. The United States withdrew from ICNAF on December 31, 1976, because continued adherence to the convention was deemed incompatible with the extension of U.S. fishery management jurisdictions to 200 miles under the Magnuson Fishery Conservation and Management Act of 1976. See Northwest Atlantic Fisheries Organization (NAFO).

JOINT VENTURE. An operation authorized under the MFCMA in which a permitted foreign vessel receives fish in the U.S. FCZ from a U.S. vessel. The fish received from the U.S. vessel are part of the U.S. harvest.

LANDINGS, COMMERCIAL. Quantities of fish, shellfish, and other aquatic plants and animals brought ashore and sold. Landings of fish may be in terms of round (live) weight or dressed weight. Landings of crustaceans are generally on a live-weight basis except for shrimp which may be on a heads-on or heads-off basis. Mollusks are generally landed with the shell on, but for some species only the meats are landed, such as sea scallops. Data for all mollusks are published on a meat-weight basis.

MAGNUSON FISHERY CONSERVATION AND MANAGEMENT ACT, Public Law 94-265, as amended, (MFCMA). The Act provides a national program for the conservation and management of fisheries to allow for an optimum yield (OY) on a continuing basis and to realize the full potential of the Nation's fishery resources. The MFCMA established the U.S. Exclusive Economics zone (EEZ) (formerly the FCZ - fishery conservation zone) and a means to control foreign and certain domestic fisheries through PMPs and FMPs. Within the U.S. EEZ, the United States has exclusive management authority over all fish (meaning finfish, mollusks, crustaceans, and all other forms of marine animal and plant life other than marine mammals, birds, and highly migratory species of tuna). The Act provides further exclusive management authority beyond the U.S. EEZ for all continental shelf fishery resources and all anadromous species throughout the migratory range of each such species, except during the time they are found within any foreign nation's territorial sea or fishery conservation zone (or the equivalent), to the extent that such a sea or zone is recognized by the United States.

MARINE RECREATIONAL CATCH. Quantities of finfish, shellfish, and other living aquatic organisms caught, but not necessarily brought ashore, by marine recreational fishermen.

MARINE RECREATIONAL FISHING. Fishing for pleasure, amusement, relaxation, or home consumption. If part or all of the catch is sold, the monetary returns constitute an insignificant part of the person's income.

MARINE RECREATIONAL FISHERMEN. Those people who fish in marine waters primarily for recreational purposes. Their catch is primarily for home consumption, although occasionally a part or all of their catch may be sold and enter commercial channels.

MAXIMUM SUSTAINABLE YIELD (MSY). MSY from a fishery is the largest annual catch or yield in terms of weight of fish caught by both commercial and recreational fishermen that can be taken continuously from a stock under existing environmental conditions. A determination of MSY, which should be an estimate based upon the best scientific information available, is a biological measure necessary in the development of optimum yield.

METRIC TONS. A measure of weight equal to 1,000 kilograms, 0.984 long tons, 1.1023 short tons, or 2,204.6 pounds.

NORTHWEST ATLANTIC FISHERIES ORGANIZATION (NAFO). This convention, which entered into force January 1, 1979, replaces ICNAF. NAFO provides a forum for continued multilateral scientific research and investigation of fishery resources of the Northwest Atlantic. NAFO will manage fishery resources that occur beyond the limits of coastal nations fishery jurisdiction in the northwest Atlantic, and will ensure consistency between NAFO management measures in this area and those adopted by the coastal nations within the limits of their fishery jurisdiction.

MOTORBOAT. A motor-driven commercial fishing craft having a capacity of less than 5 net tons or not officially documented by the Coast Guard. See "boat, other."

OPTIMUM YIELD (OY). In the MFCMA, OY with respect to the yield from a fishery, is the amount of fish that (1) will provide the greatest overall benefit to the United States, with particular reference to food production and recreational opportunities; and (2) is prescribed as such on the basis of maximum sustainable yield from such fishery, as modified by any relevant ecological, economic, or social factors.

PACKAGED FISH. A term used in NMFS publications prior to 1972 to designate fresh or frozen raw fish fillets and steaks.

PART-TIME COMMERCIAL FISHERMAN. An individual who receives less than 50 percent of their annual income from commercial fishing activities.

PER CAPITA CONSUMPTION. Consumption of edible fishery products in the United States divided by the total civilian population. In calculating annual per capita consumption, estimates of the civilian resident population of the United States on July 1 of each year are used. These estimates are taken from current population reports, series P-25, published by the U.S. Bureau of the Census.

PER CAPITA USE. The use of all fishery products, both edible and nonedible, in the United States divided by the total population of the United States.

PRELIMINARY FISHERY MANAGEMENT PLAN (PMP). The Secretary of Commerce prepares a PMP whenever a foreign nation with whom the United States has made a Governing International Fishery Agreement (GIFA) submits an application to fish in a fishery not managed by a FMP. A PMP is replaced by an FMP as soon as the latter is implemented. A PMP applies only to foreign fishing.

RETAIL PRICE. The price of fish and shellfish sold to the final consumer by food stores and other retail outlets.

ROUND (LIVE) WEIGHT. The weight of fish, shellfish, or other aquatic plants and animals as taken from the water; the complete or full weight as caught. The tables on world catch found in this publication include, in the case of mollusks, the weight of both the shells and the meats, whereas the tables on U.S. landings include only the weight of the meats.

SURIMI. Minced fish meat (usually Alaska pollock) which has been washed to remove fat and undesirable matters (such as blood, pigments, and odorous substances), and mixed with cryoprotectants, such as sugar and/or sorbitol, for a good frozen shelf life.

TOTAL ALLOWABLE LEVEL OF FOREIGN FISHING (TALFF). The TALFF, if any, with respect to any fishery subject to the exclusive fishery management authority of the United States, shall be that portion of the optimum yield of such fishery which will not be harvested by vessels of the United States, as determined by provisions of the MFCMA.

U.S. EXCLUSIVE ECONOMIC ZONE (EEZ). The MFCMA defines this zone as contiguous to the territorial sea of the United States and extending seaward 200 nautical miles measured from the baseline from which the territorial sea is measured. This was formerly referred to as the FCZ (Fishery Conservation Zone).

U.S.-FLAG VESSEL LANDINGS. Includes landings by all U.S. fishing vessels regardless of where landed as opposed to landings at ports in the 50 States. These include landings at foreign ports, U.S. territories, and foreign vessels in the U.S. FCZ under joint venture agreements. U.S. law prohibits vessels constructed or registered in foreign countries to land fish catches at U.S. ports.

U.S. TERRITORIAL SEA. A zone extending 3 nautical miles from shore for all States except Texas and the Gulf Coast of Florida where the seaward boundary is 3 marine leagues (9 nautical miles).

USE OF FISHERY PRODUCTS. Estimated disappearance of the total supply of fishery products both edible and nonedible on a round-weight basis without considering beginning or ending stocks, exports, military purchases, or shipments to U.S. territories.

VESSEL. A commercial fishing craft having a capacity of 5 net tons or more. These craft are either enrolled or documented by the U.S. Coast Guard and have an official number assigned by that agency.

WHOLESALE FISH AND SHELLFISH PRICES. Prices in this report generally are those received at principal fishery markets by primary wholesalers (processors, importers, and brokers) in customary quantities, free on board (f.o.b.) warehouse.

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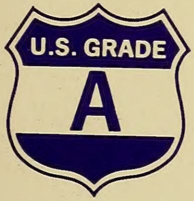
Federal Inspection Marks For Fishery Products

FISHERY PRODUCTS ARE VOLUNTARILY INSPECTED. Beef and poultry, as well as many other perishable food items, are federally inspected at various stages of processing to ensure buyers that the product is safe, wholesome, and acceptable. Fishery products have no similar mandatory Federal inspection program; however, the U.S. Department of Commerce (USDC) provides a voluntary inspection program for fishery products. Seafood processors, packers, brokers, and users who are interested in having USDC inspect their products may subscribe voluntarily to the program. Users of the service pay for USDC inspection which evaluates their raw materials, ensures the hygienic preparation of products, and certifies the final quality and condition of the product. The USDC inspector functions as an objective observer in evaluating processing techniques and product quality and condition. Products packed in plants under USDC inspection can carry marks for easy consumer identification.

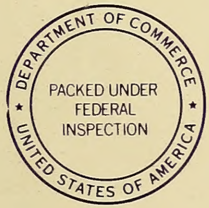
FEDERAL INSPECTION MARKS. Federal inspection marks are official marks approved by the Secretary of Commerce and authorized for use on brand labels of fishery products. When displayed on product labels, these marks signify that inspectors licensed by the Department of Commerce inspected, graded, and certified the products as having met all the requirements of inspection regulations, and have been produced in accordance with official U.S. grade standards or approved specifications.

WHAT DO THE INSPECTION MARKS MEAN? The distinctive inspection marks are symbols that signify two distinct but related functions in guiding the consumer to safe, wholesome products produced in a sanitary environment and packed in accordance with uniform quality standards under the supervision of the U.S. Department of Commerce's voluntary inspection service. The functions symbolized by each mark follow:



"U.S. GRADE" MARK. The "U.S. Grade" mark signifies that:

1. The product is clean, safe, and wholesome.
2. The product is of a specified quality, identified by the appropriate U.S. Grade designation, as determined by a federally-licensed inspector in accordance with established requirements in U.S. Grade Standards.
3. The product was produced in an acceptable establishment with proper equipment and in an appropriate processing environment as required by food control authorities.
4. The product was processed under supervision by federally-licensed food inspectors and packed in accordance with specific Good Manufacturing Practice Requirements.



5. The product is truthfully and accurately labeled as to common or usual name, optional ingredients, and quantity.

"PACKED UNDER FEDERAL INSPECTION" MARK. "Packed Under Federal Inspection" may be displayed as an official mark or as an official statement on the product label. The mark or statement signifies that the properly labeled product is clean, safe, and wholesome and has been produced in an acceptable establishment with appropriate equipment under the supervision of federally-licensed inspectors. The product has not been graded as to a specific quality level; rather, it is an acceptable commercial quality as determined by Federal inspectors in accordance with approved standards or specifications.

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